

FIG. 50

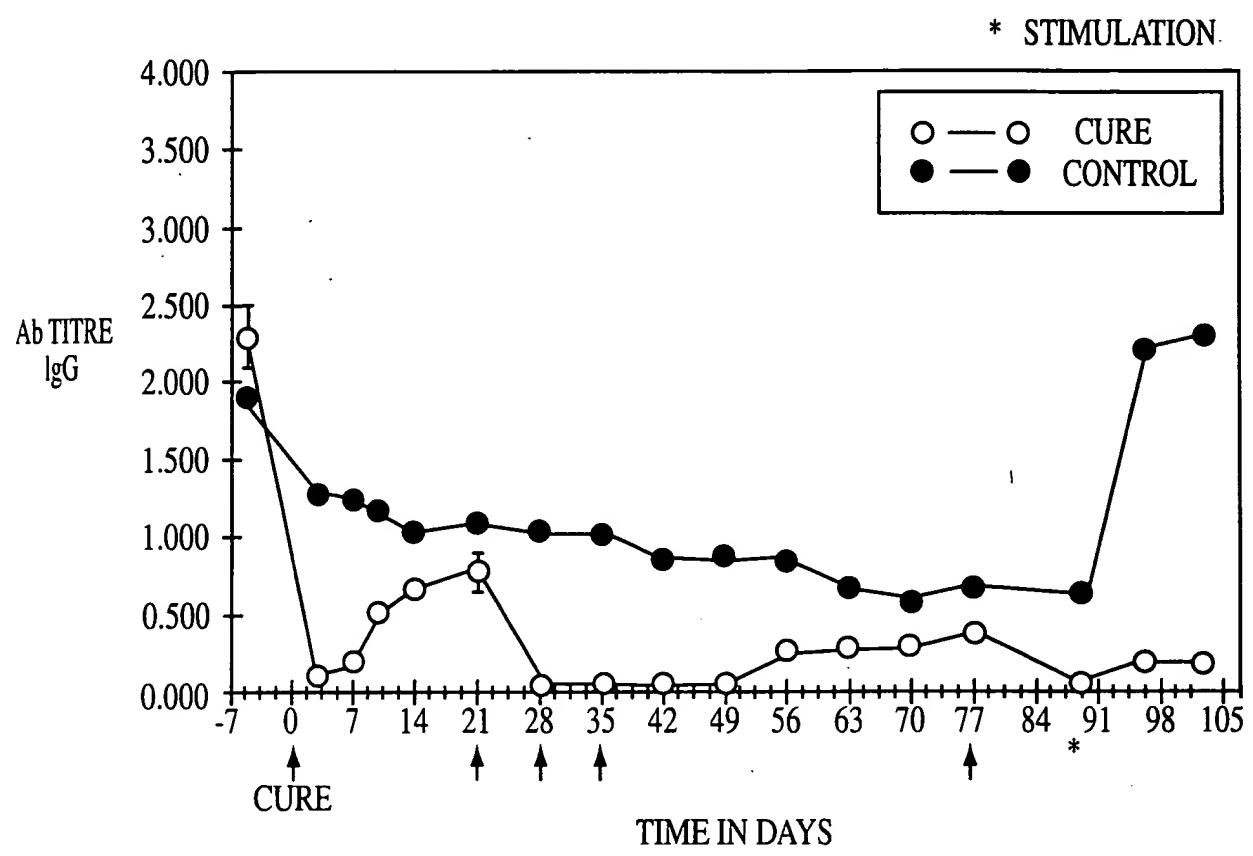


FIG. 51

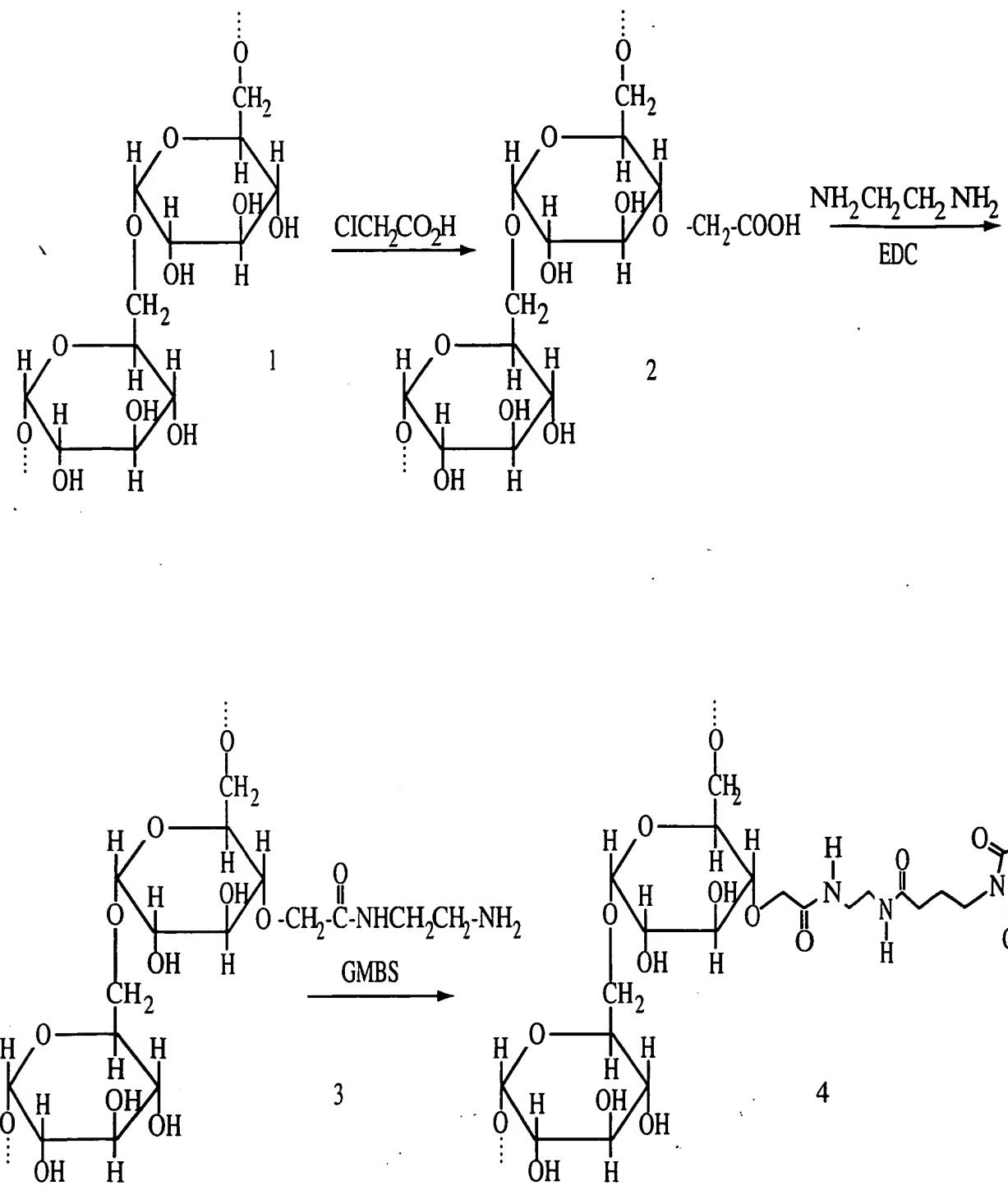
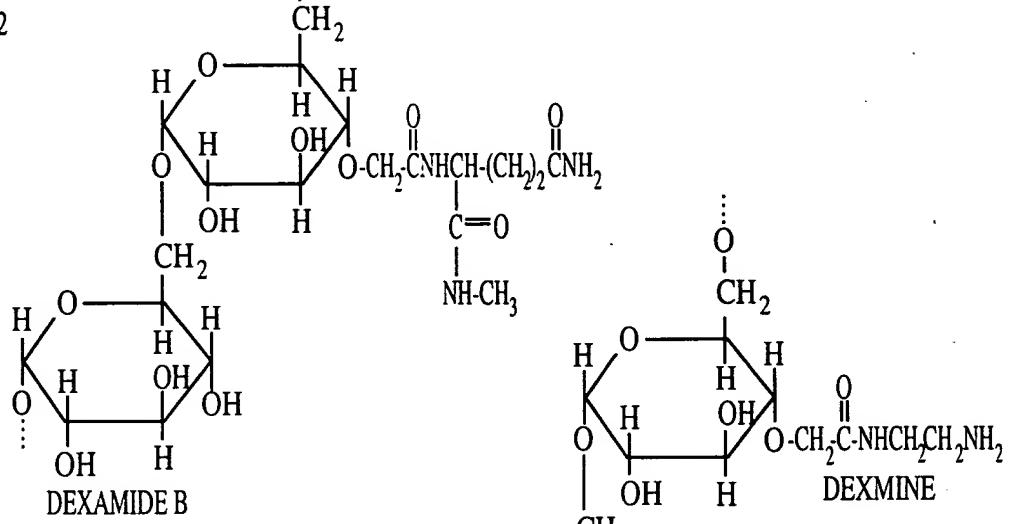
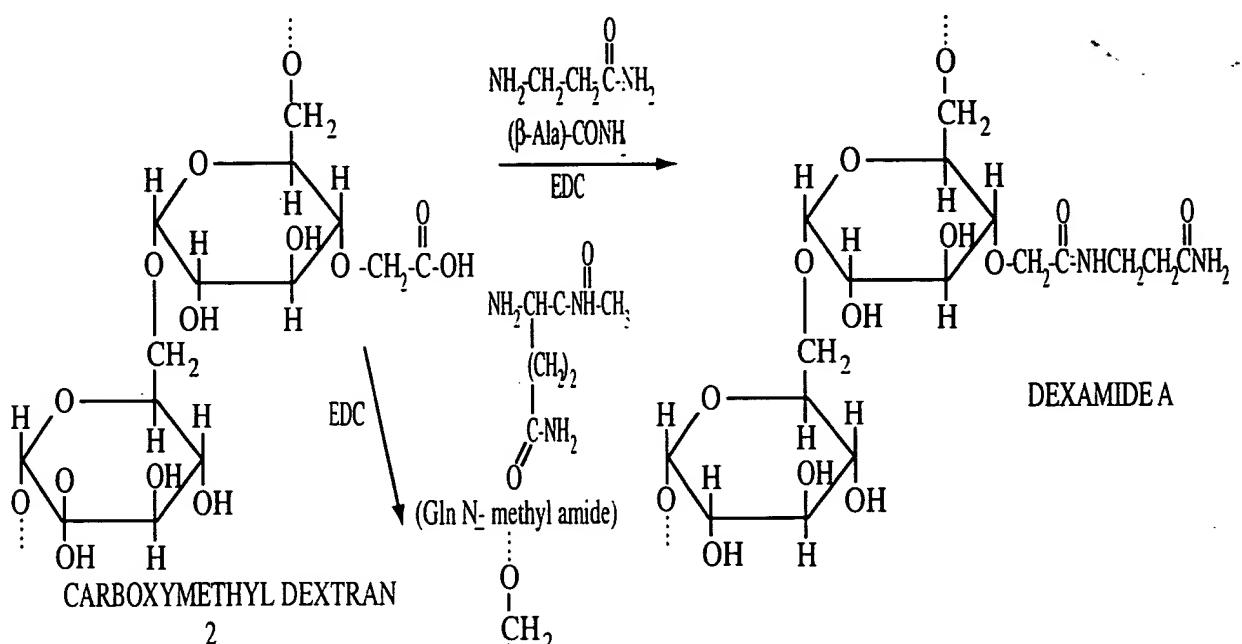
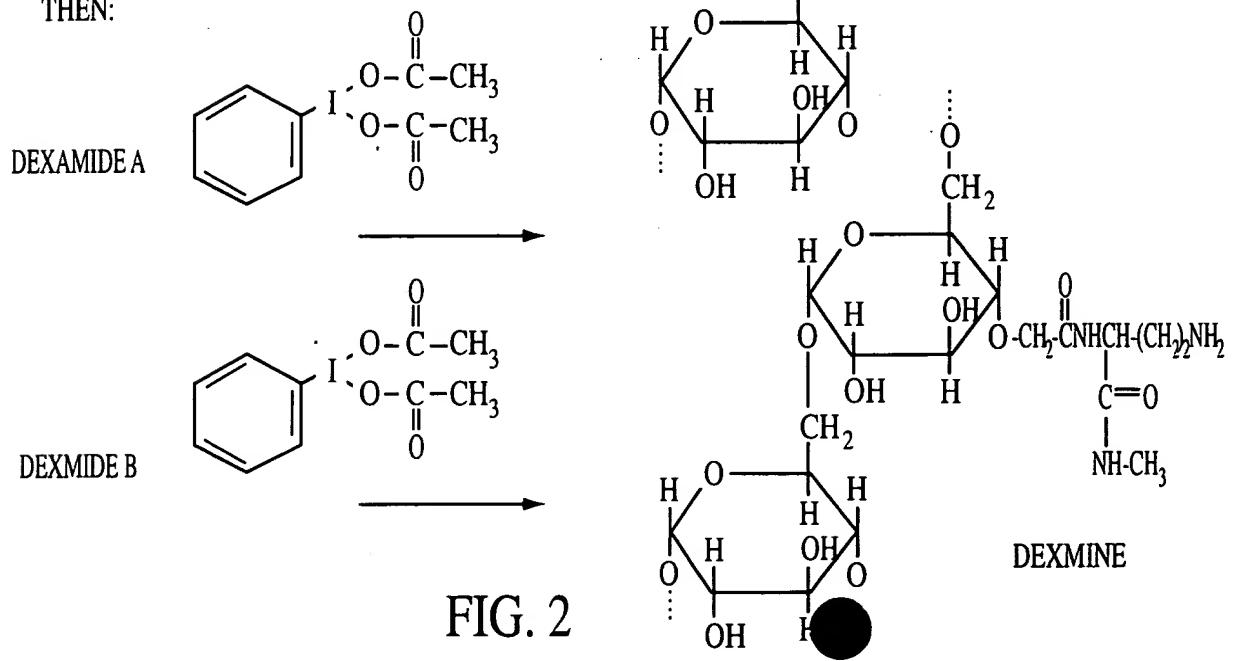


FIG. 1



THEN:



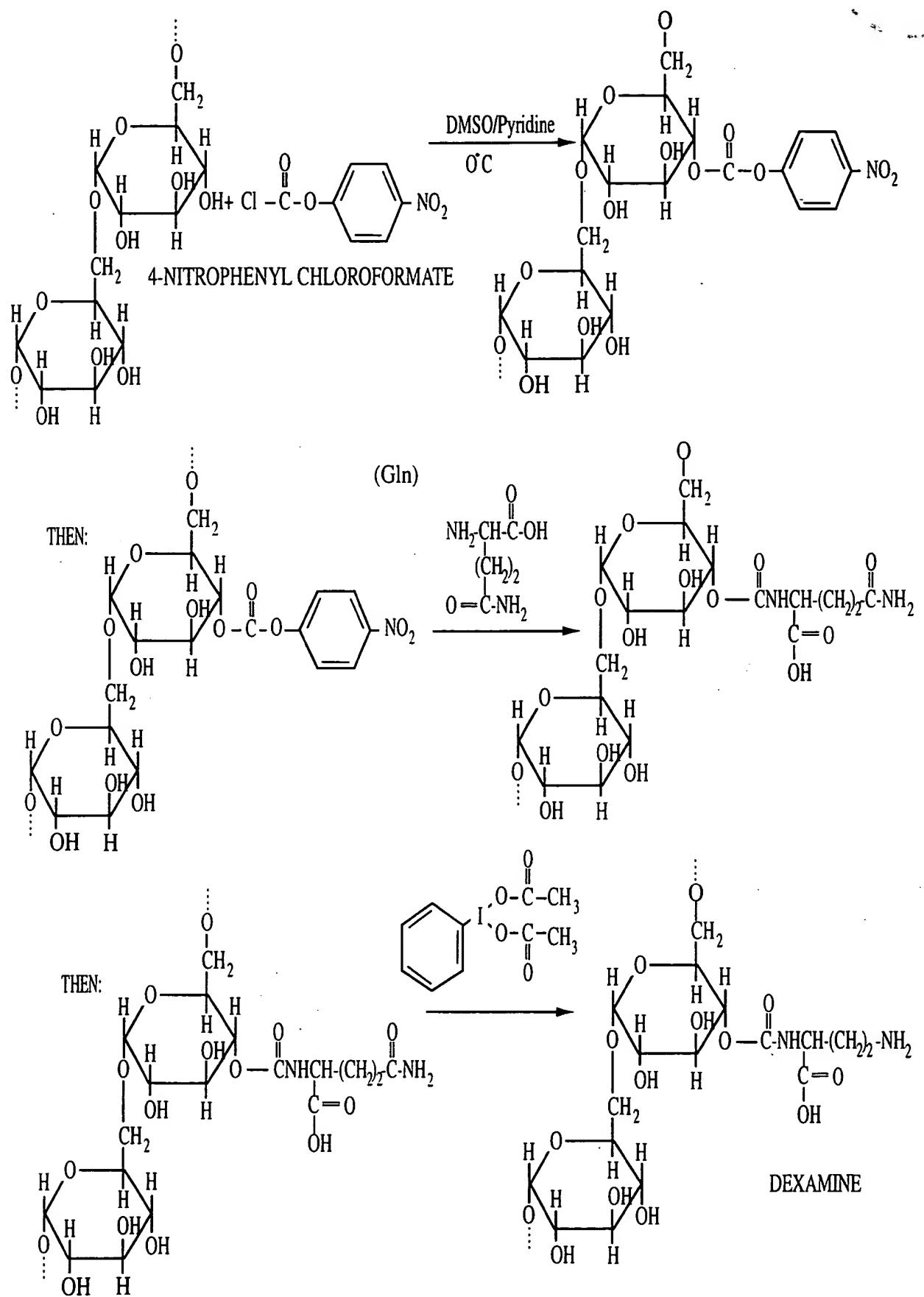


FIG. 3

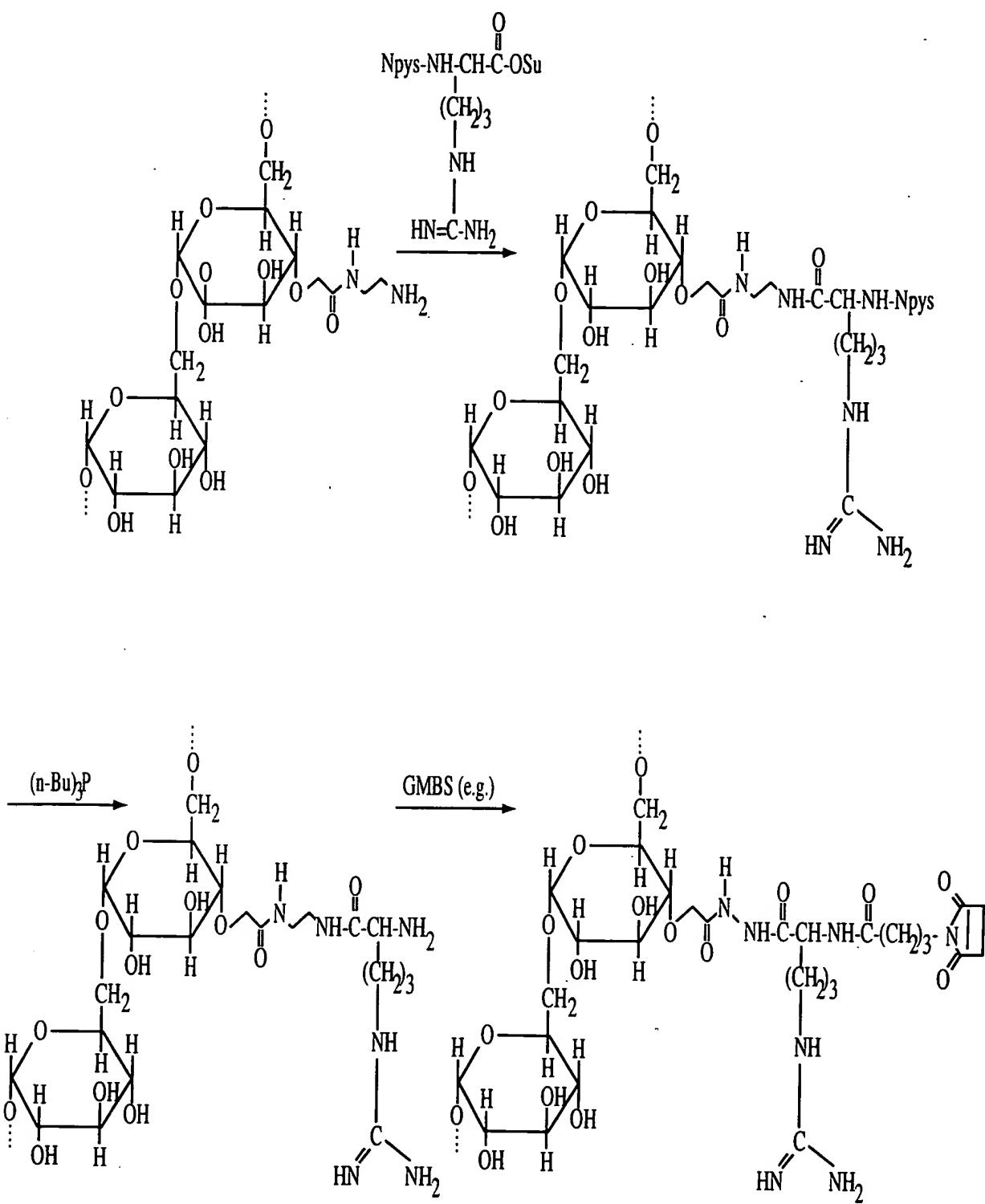


FIG. 4

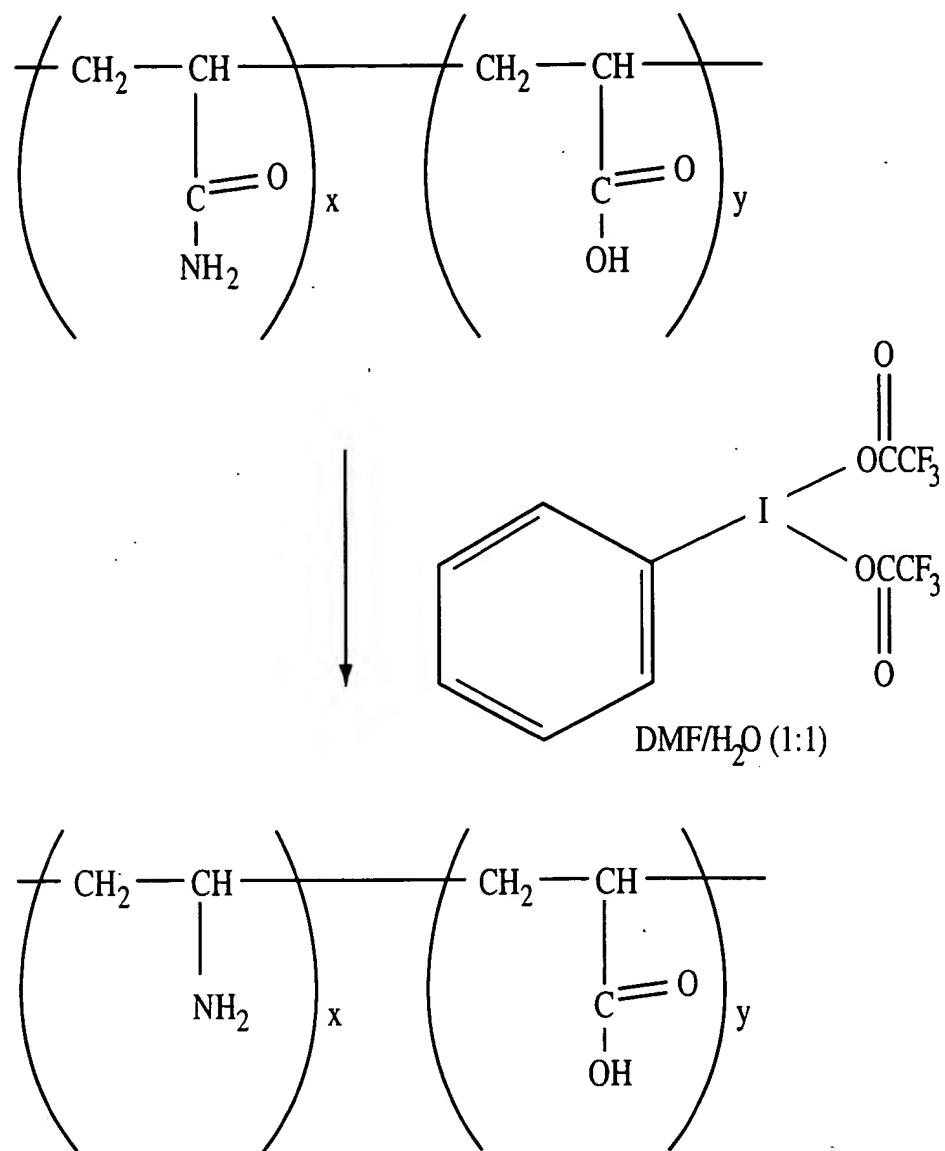
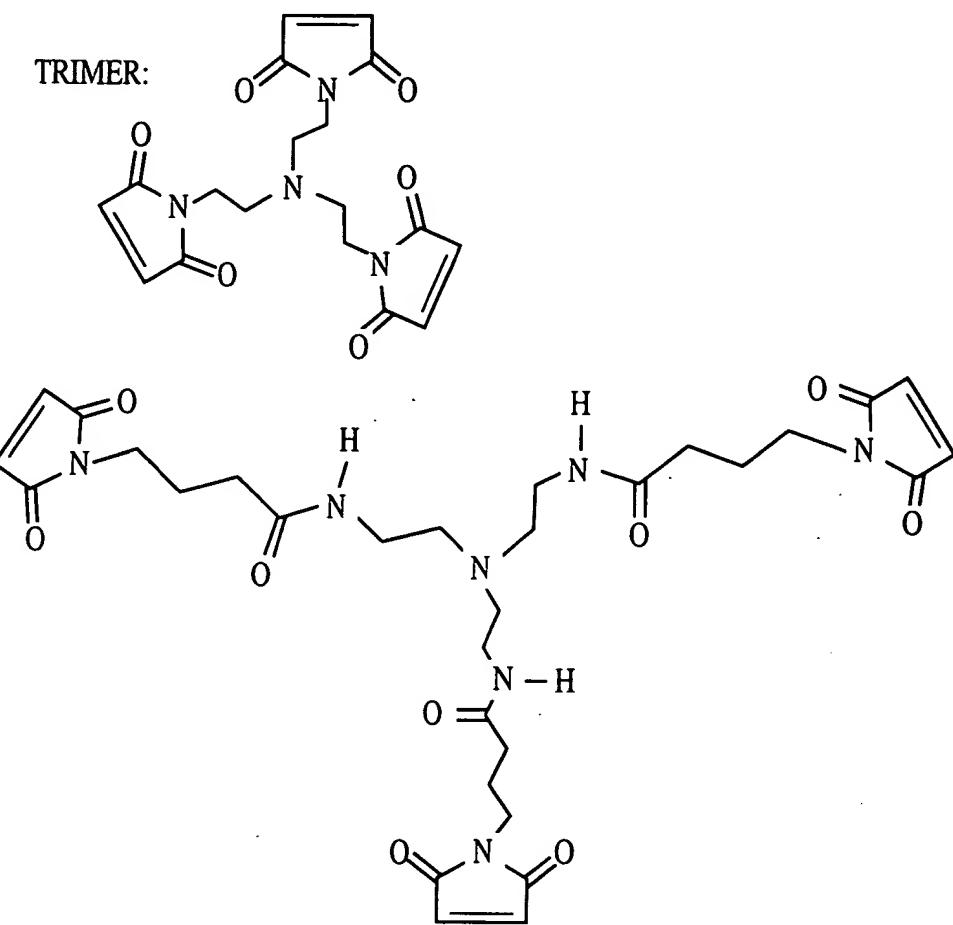


FIG. 5

TRIMER:



TETRAMER:

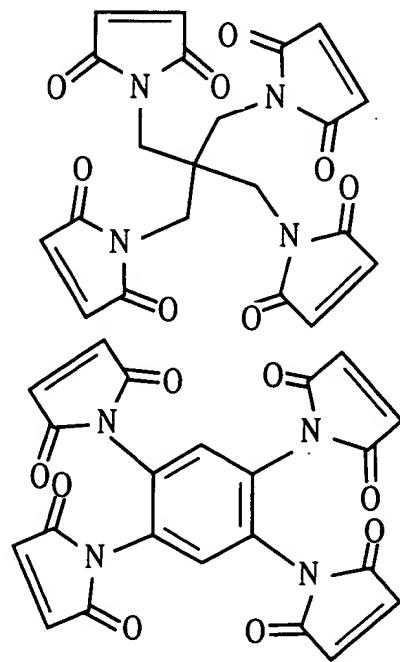


FIG. 6

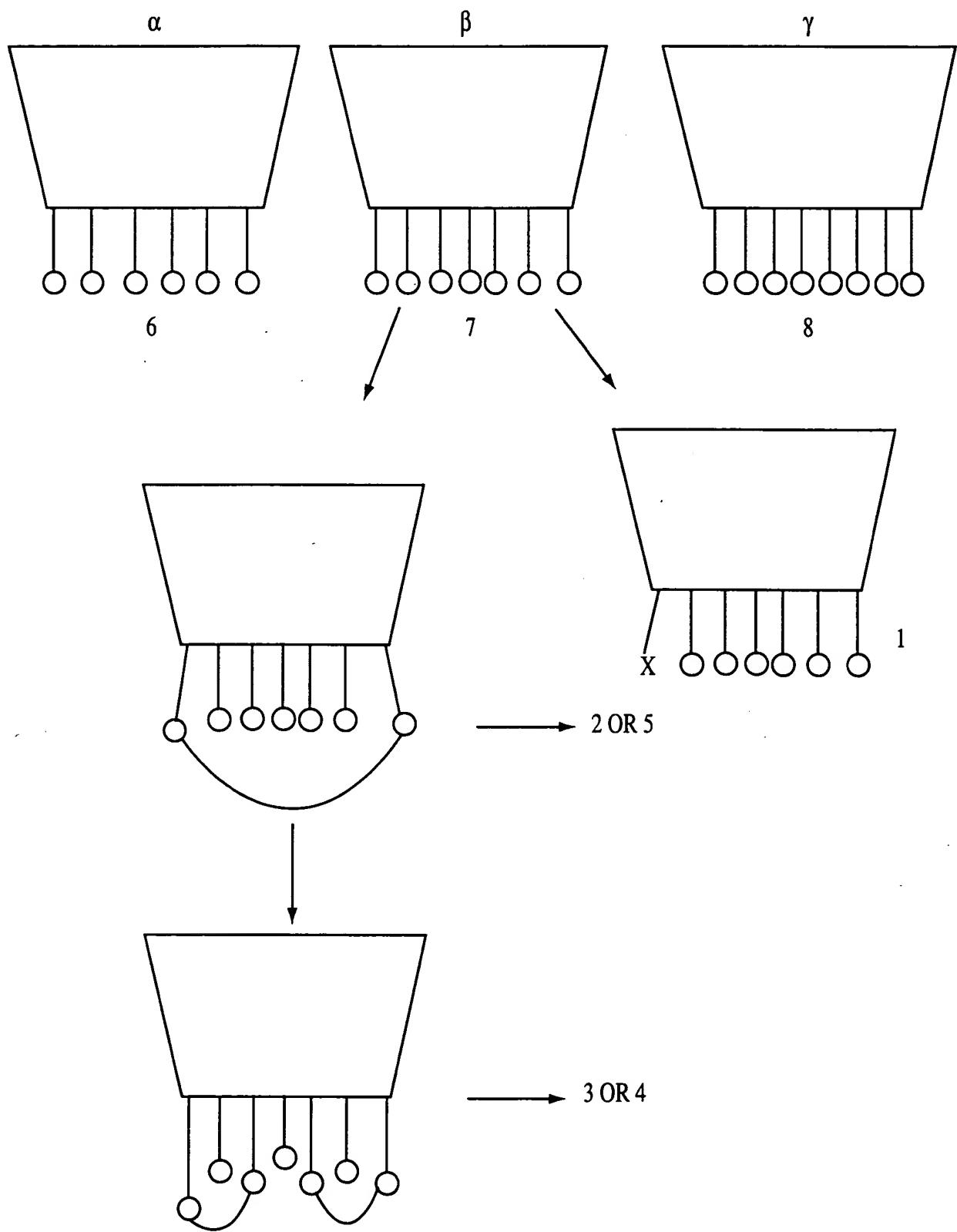


FIG. 7

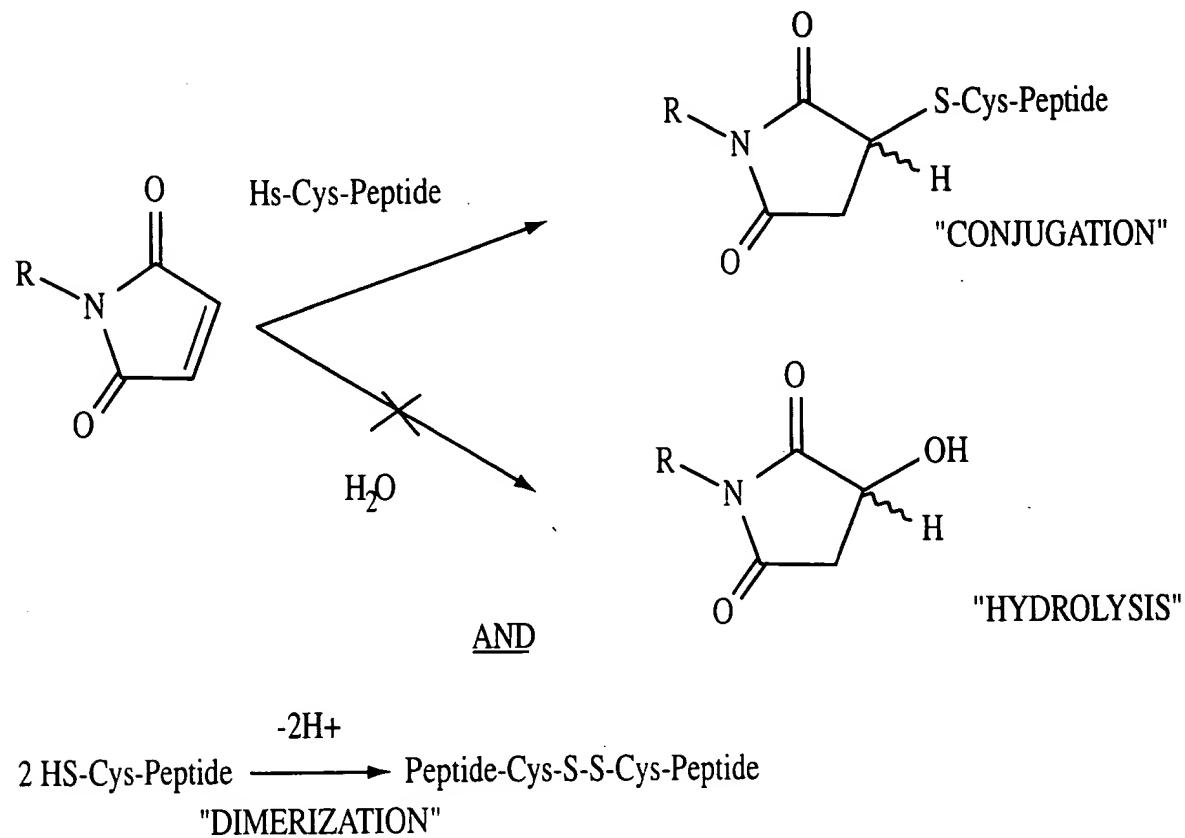


FIG. 8

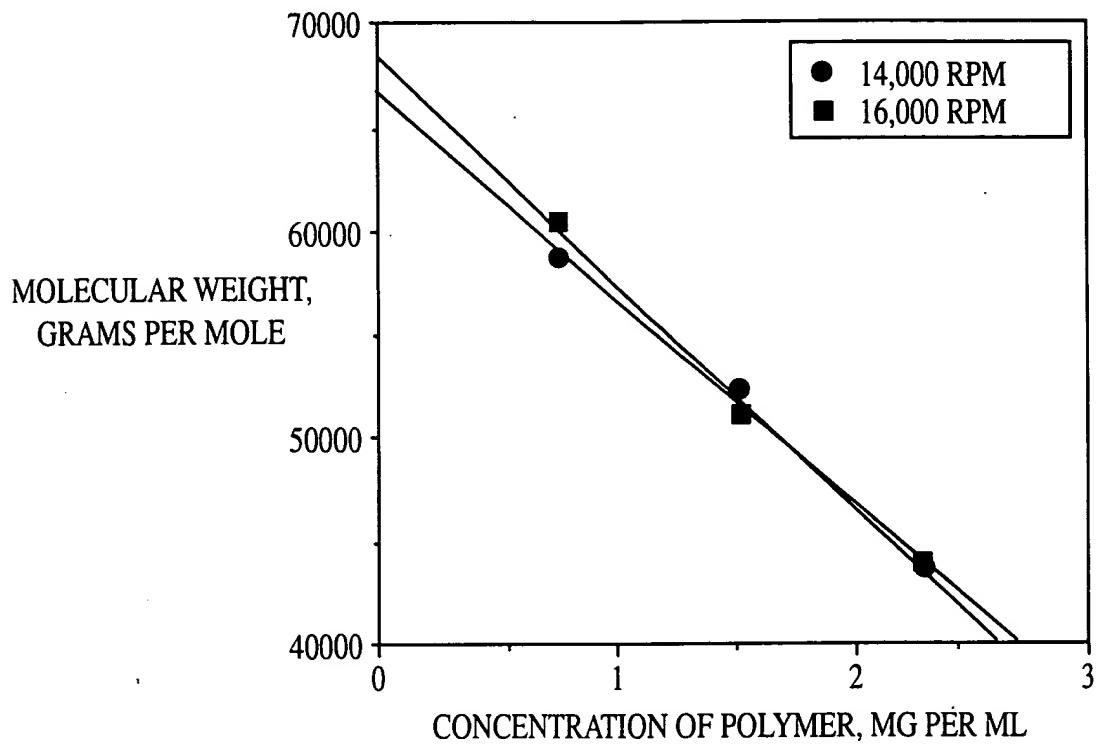


FIG. 9

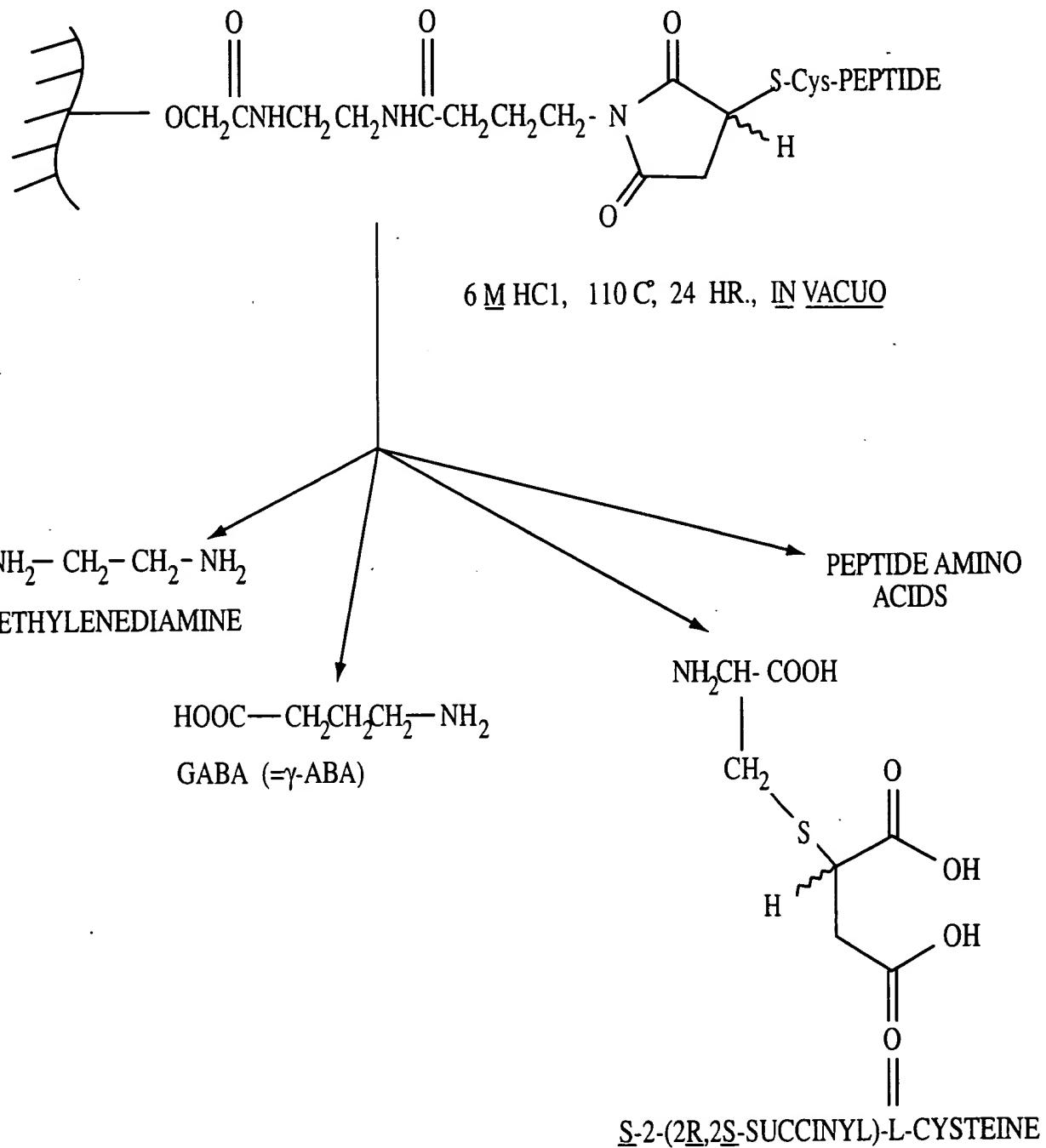
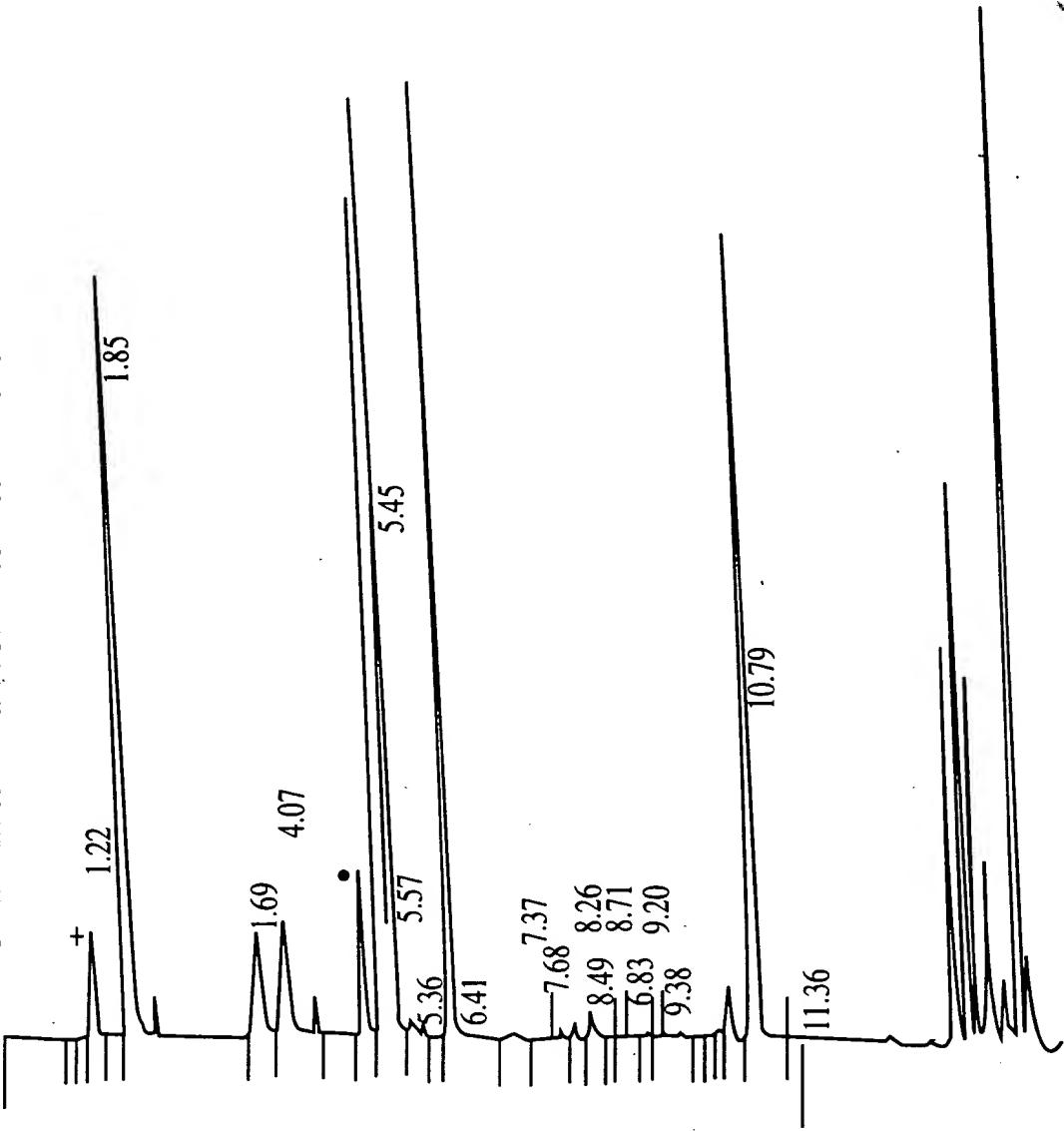


FIG. 10

PTC-(S-2-(2R,2S-succinyl)-L-Cys

CHANNEL A    INJECT    08/22/99 14:28:28



+ = PTC-(S-2-(2R,2S-succinyl)-L-Cys  
• = PTC-GABA

FIG. 11



## CONJUGATE PEPUDE SUBSTITUTION DENSITY EQUATION

NO MOLECULES PEPUDE/MOLECULE DEXAMINE

$$= \frac{\text{PMOLES PEPTIDE VIA AAA}}{\text{PMOLES DEXAMINE(=BACKBONE) VIA AAA}}$$

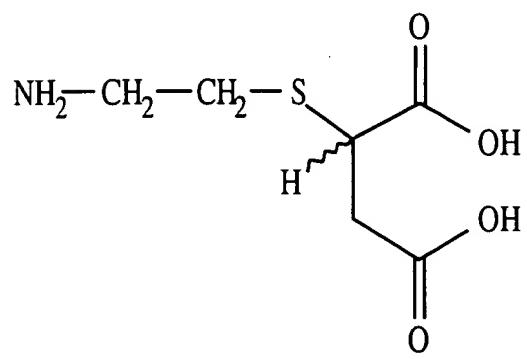
-----→ NON-COVALENTLY LINKED PEPTIDE INCREASES NUMERATOR!

-----→ LOSS OF DEXAMINE DURING:

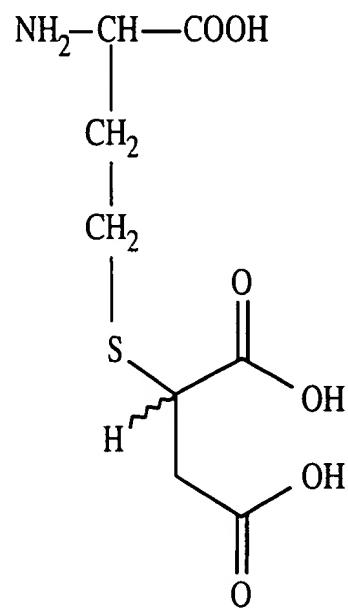
- GMBS DERIVITIZATION
- G-25 COLUMN PURIFICATION
- REACTION MIXTURE TRANSFERS

```
graph LR; A[GMBS DERIVITIZATION] --> C[DECREASES NUMERATOR]; B[G-25 COLUMN PURIFICATION] --> C; C[REACTION MIXTURE TRANSFERS] --> C;
```

FIG. 12



S-2-(2R,2S)-SUCCINYL-CYSTEAMINE



S-2-(2R,2S)-SUCCINYL-DL-HOMOCYSTEINE

FIG. 13

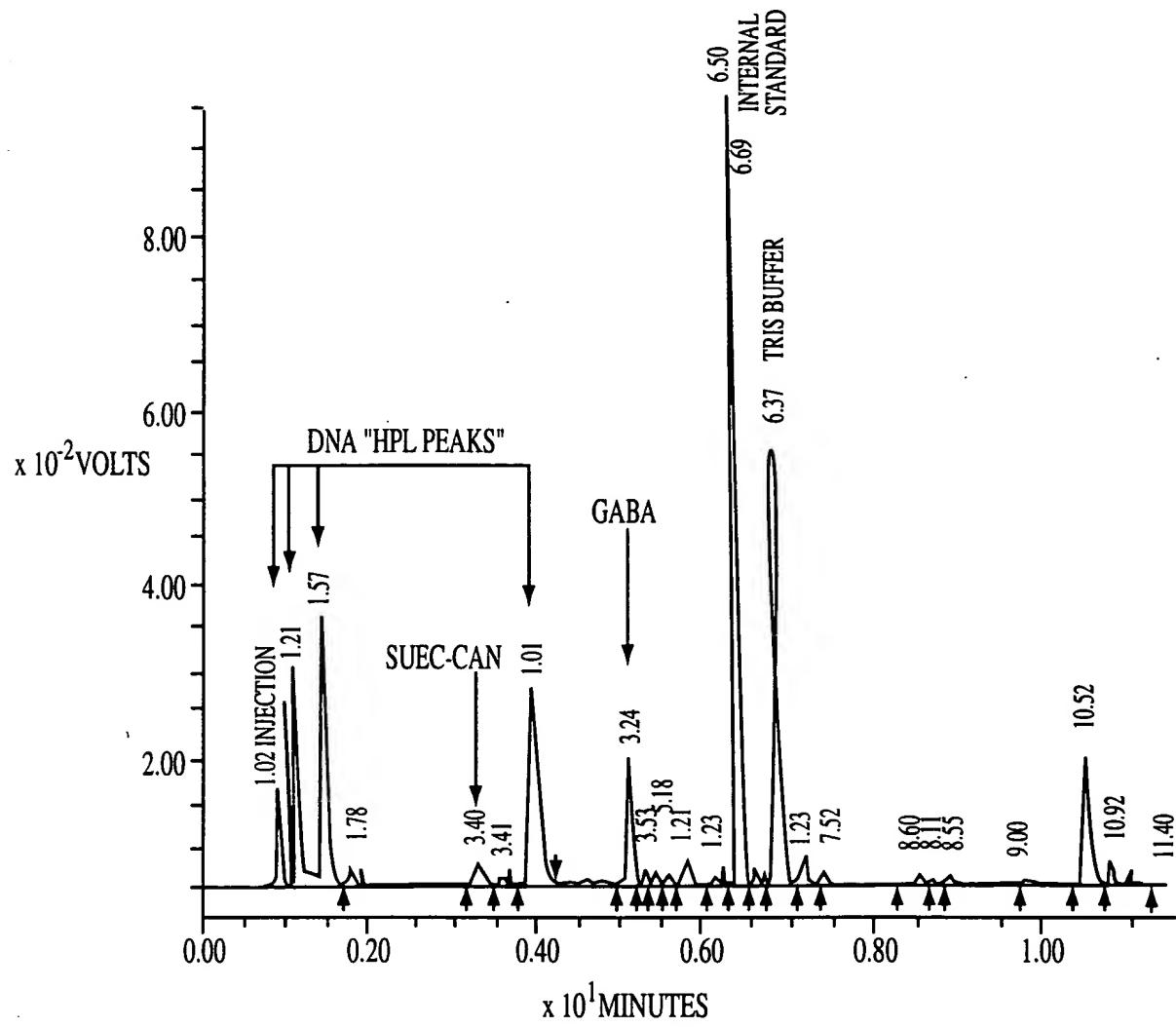


FIG. 14

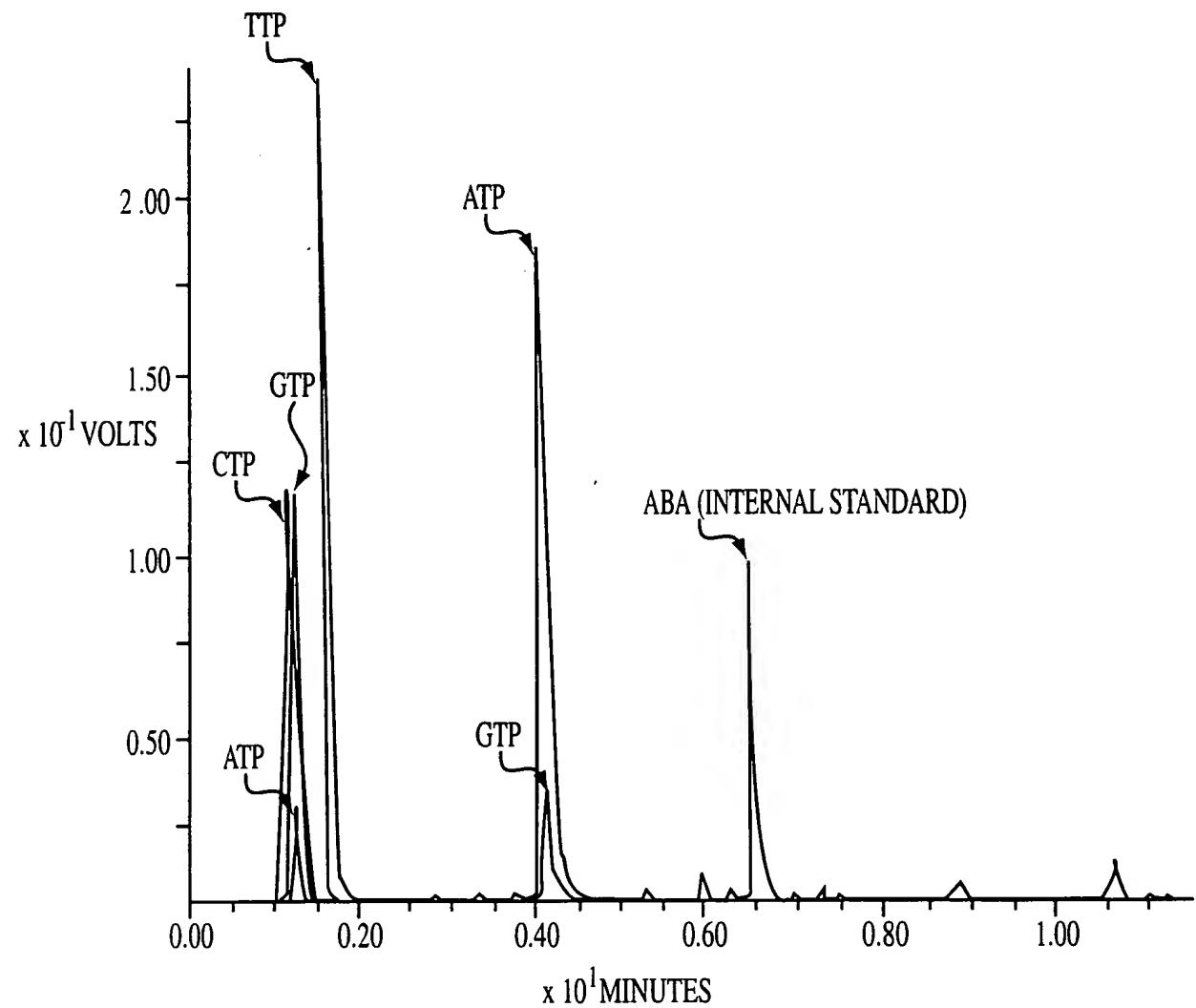


FIG. 15

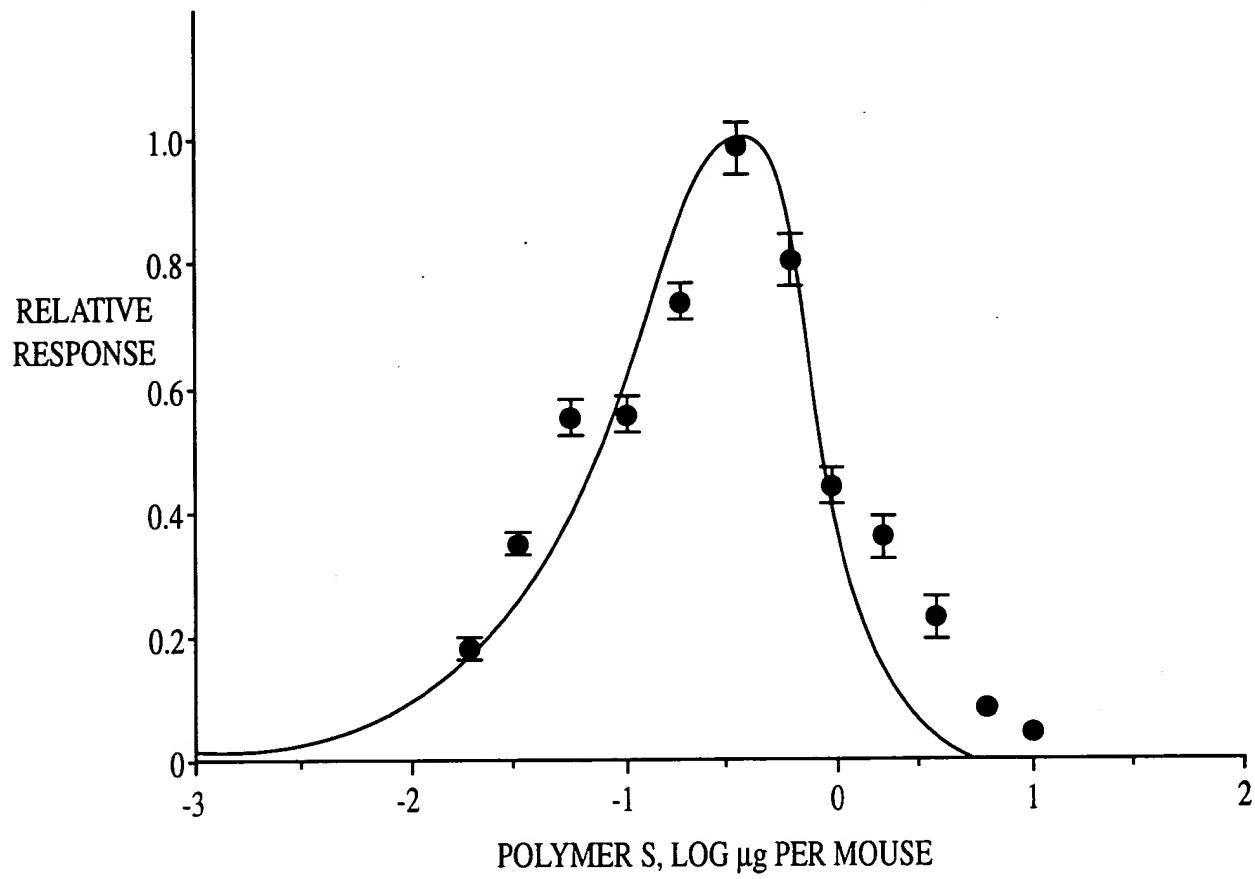


FIG. 16

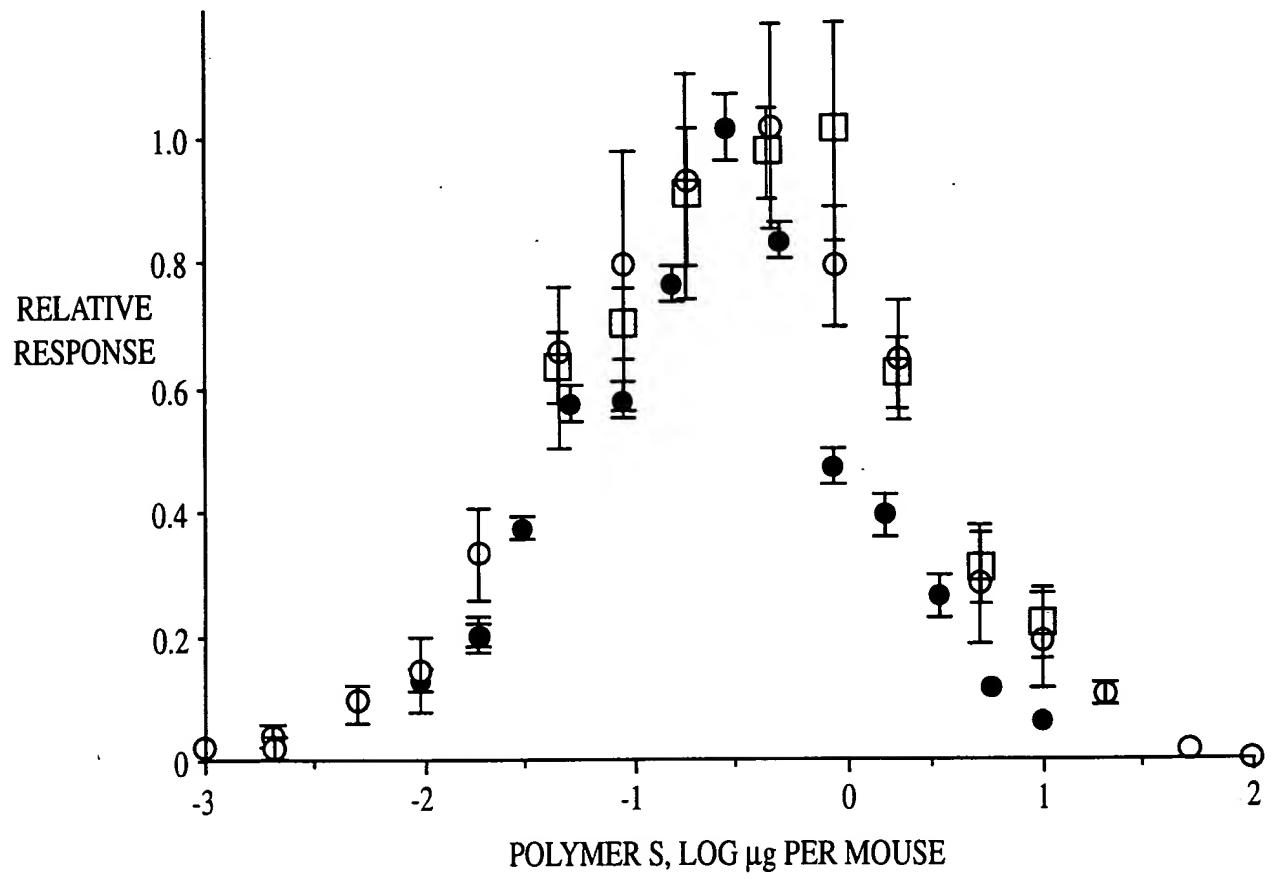


FIG. 17

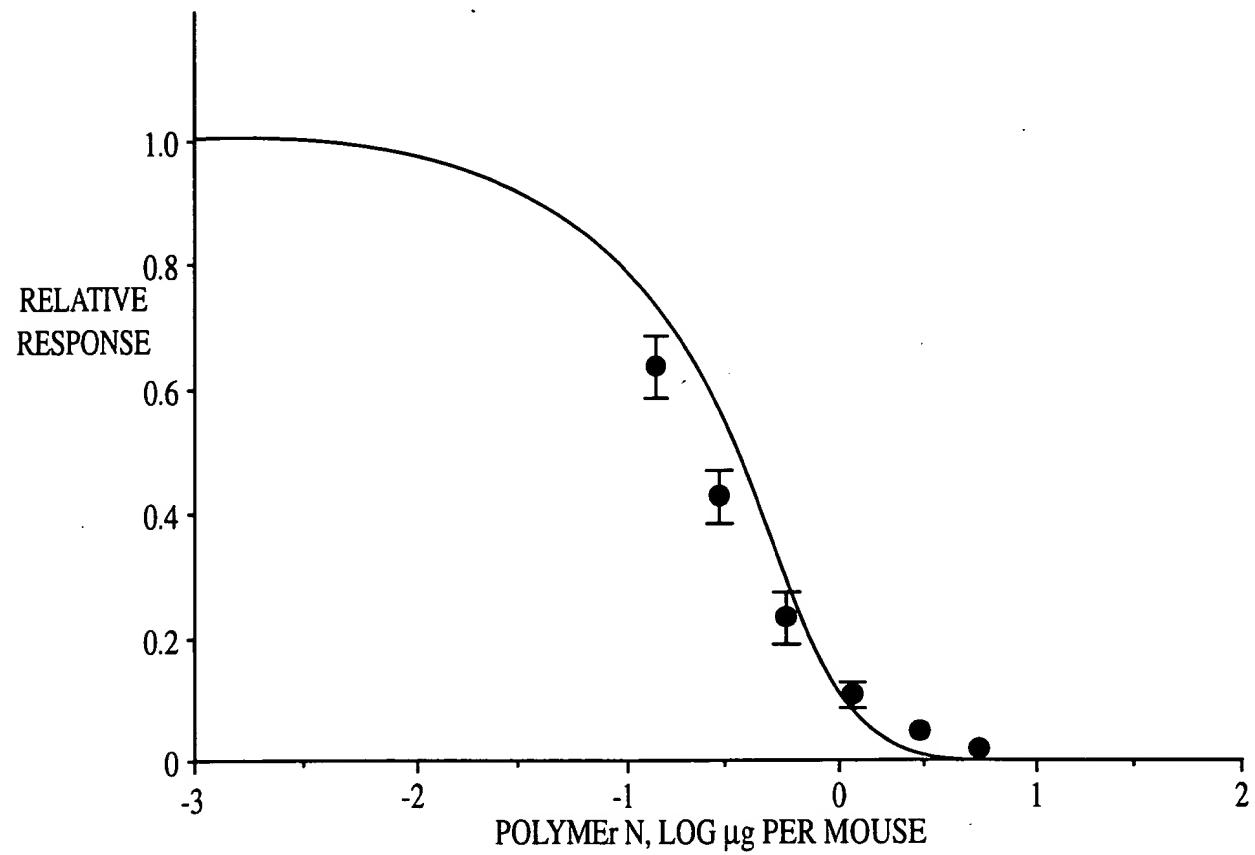


FIG. 18

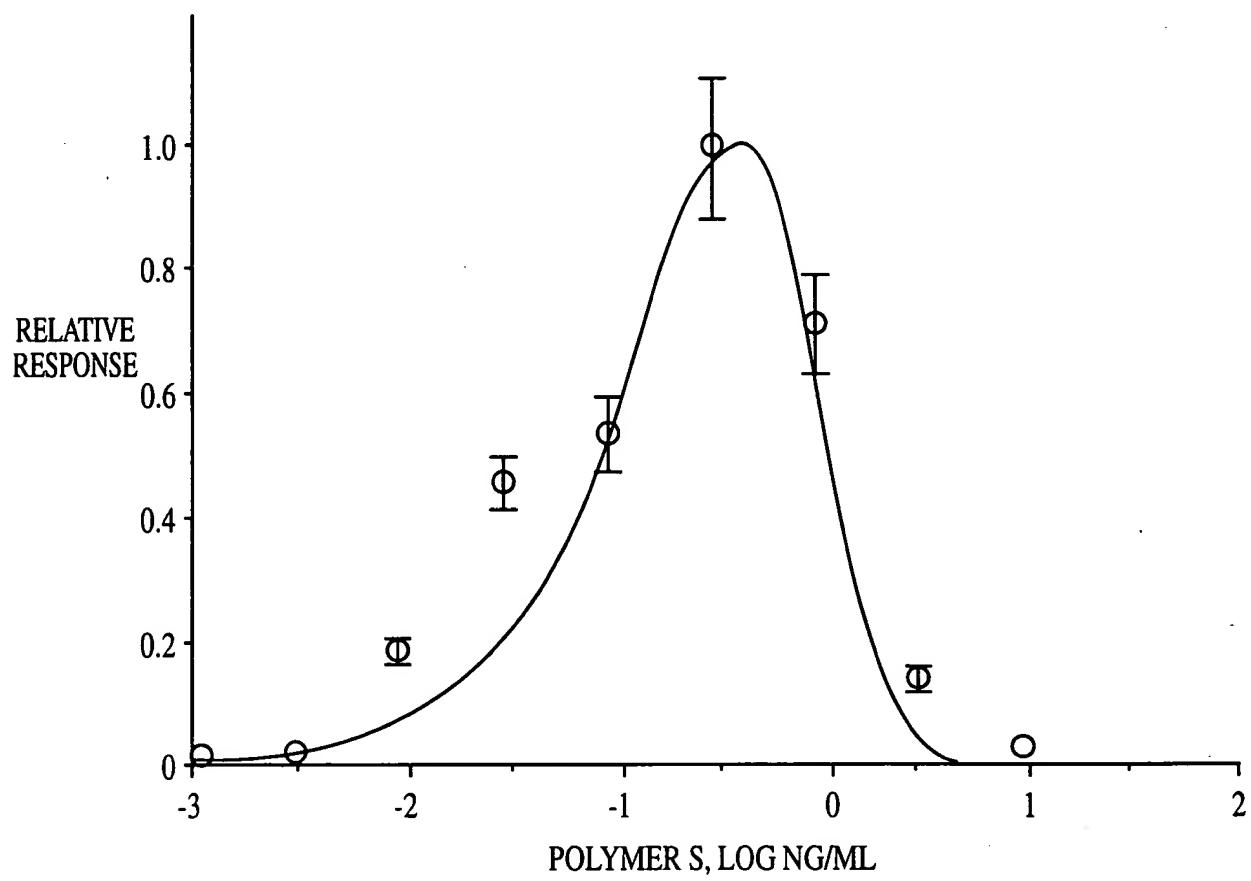


FIG. 19

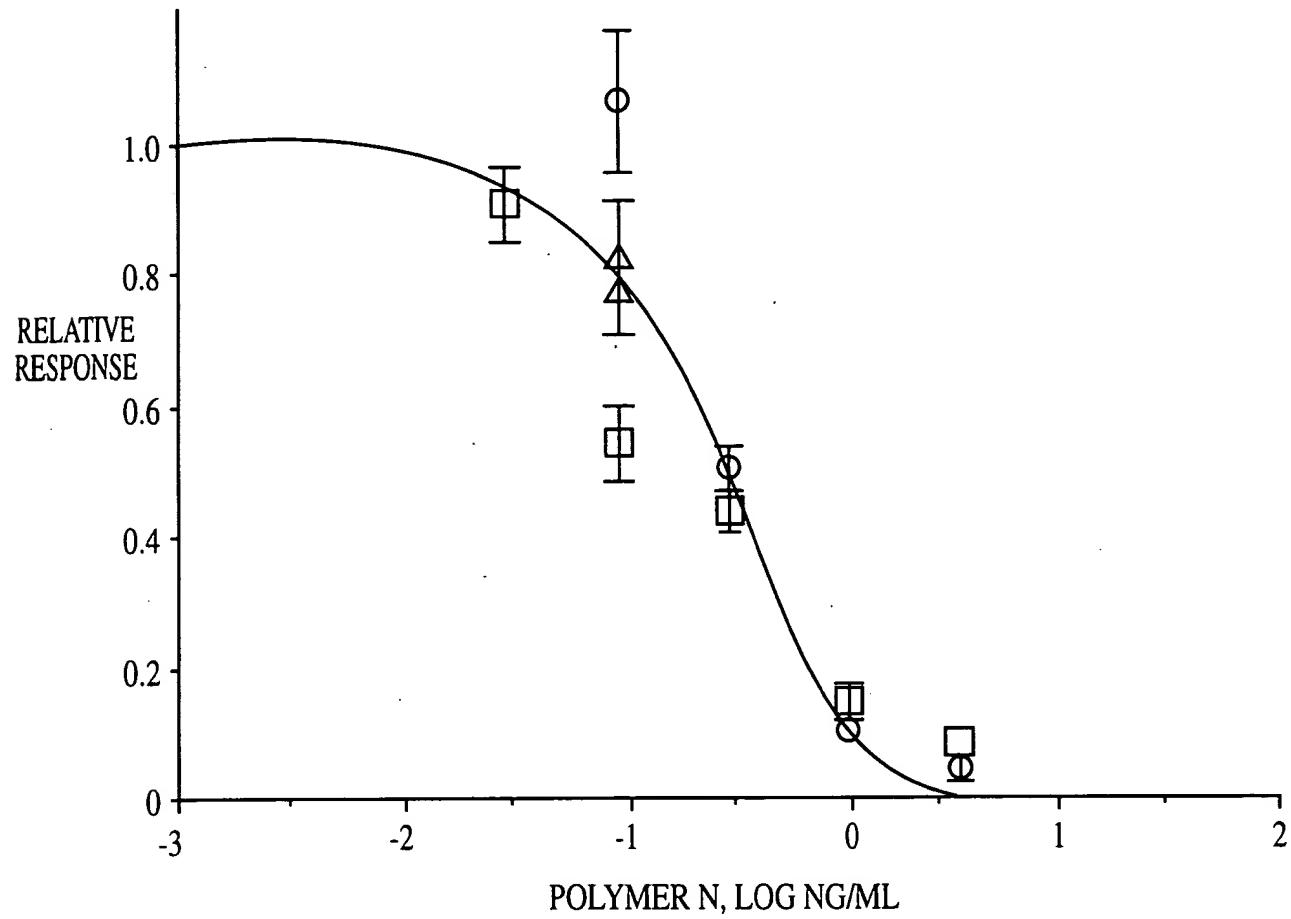


FIG. 20

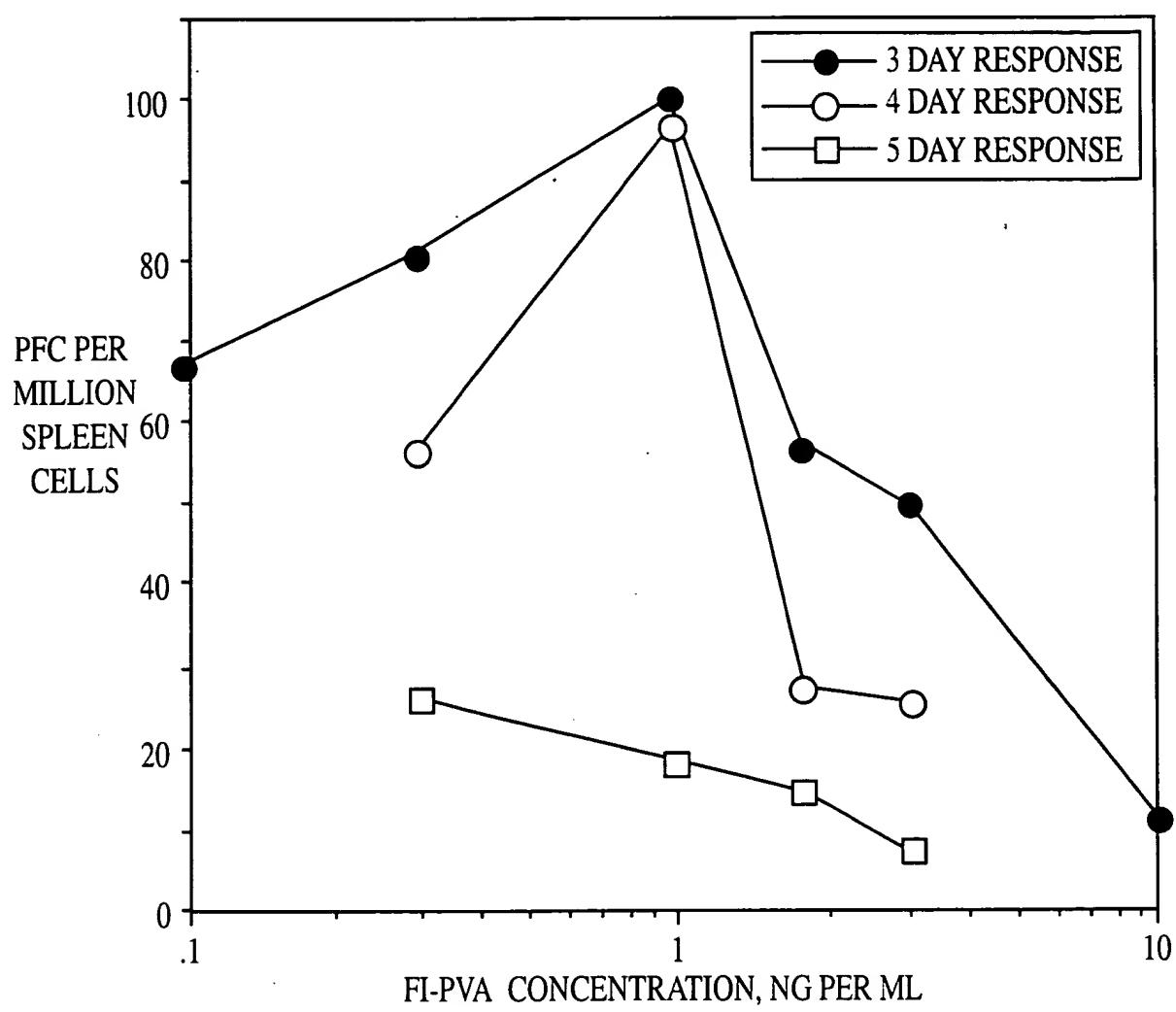


FIG. 21

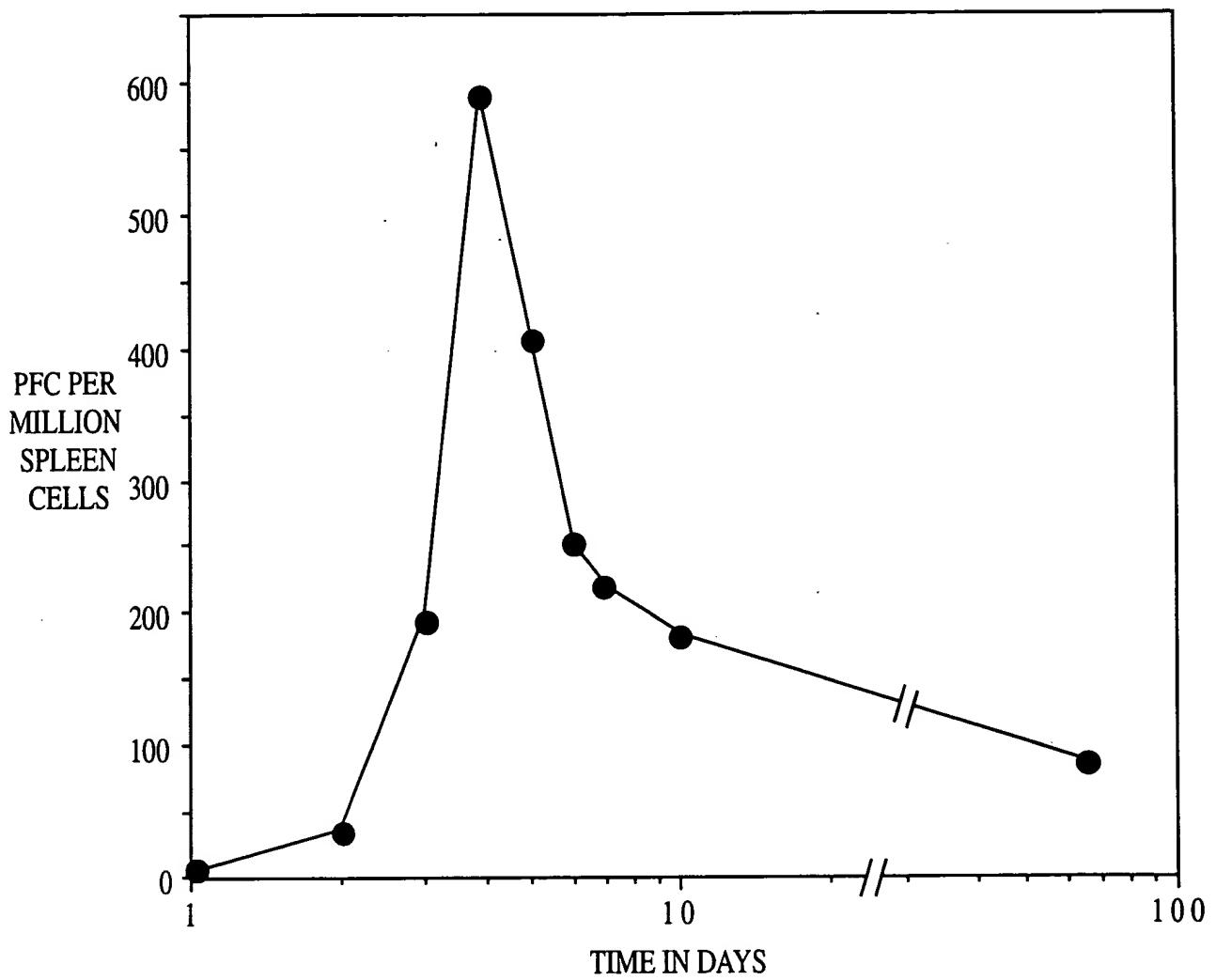


FIG. 22

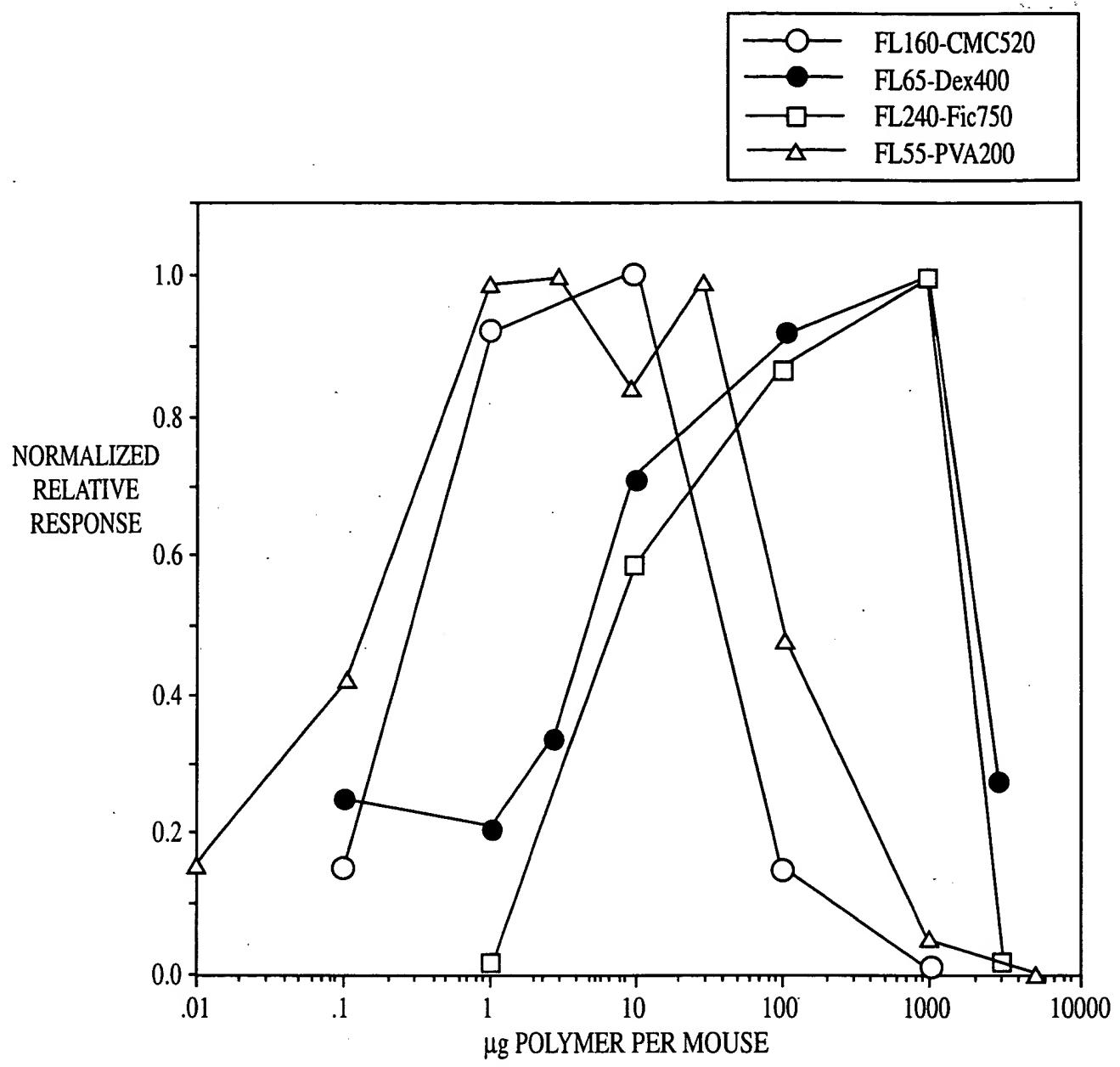


FIG. 23

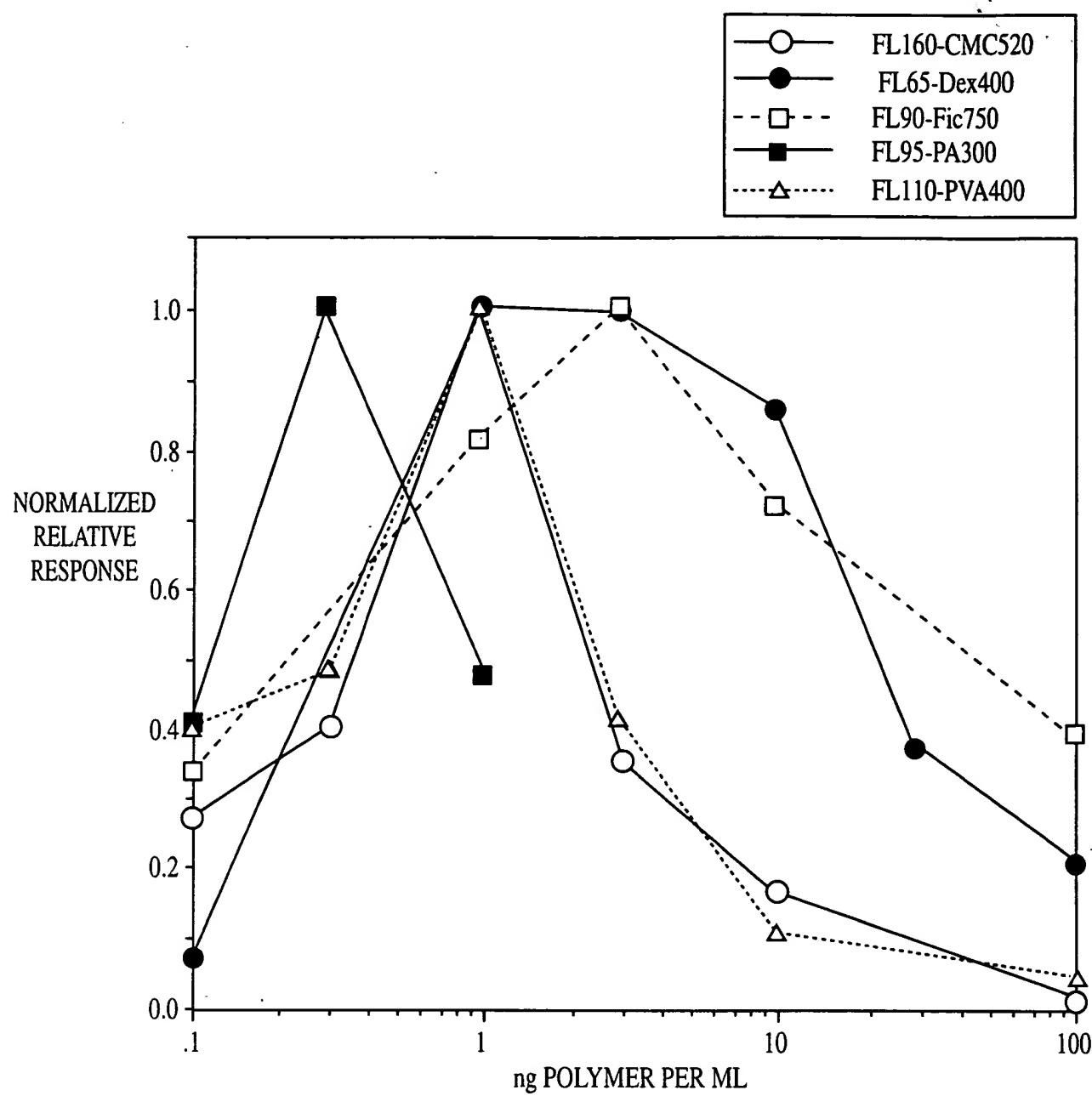


FIG. 24

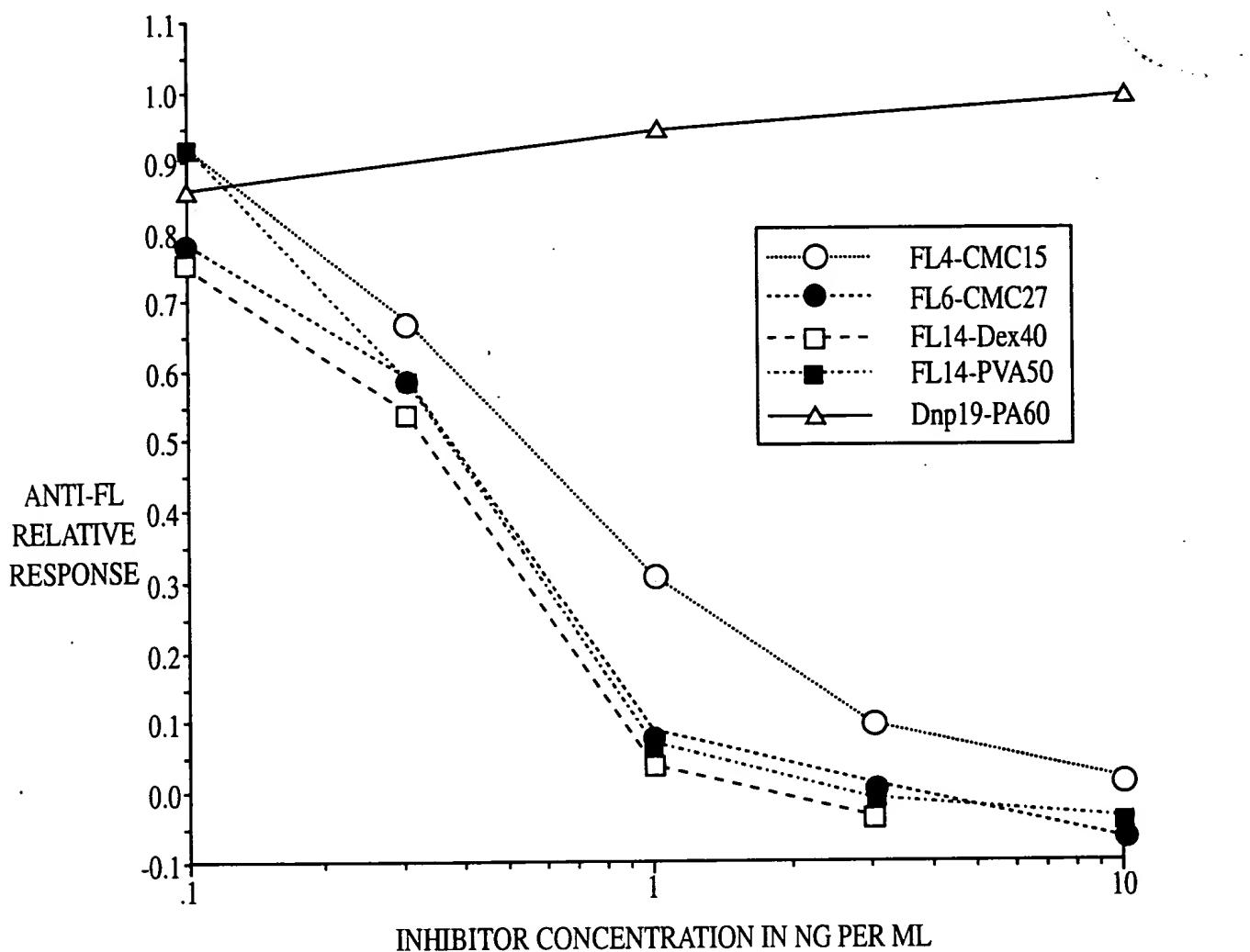


FIG. 25

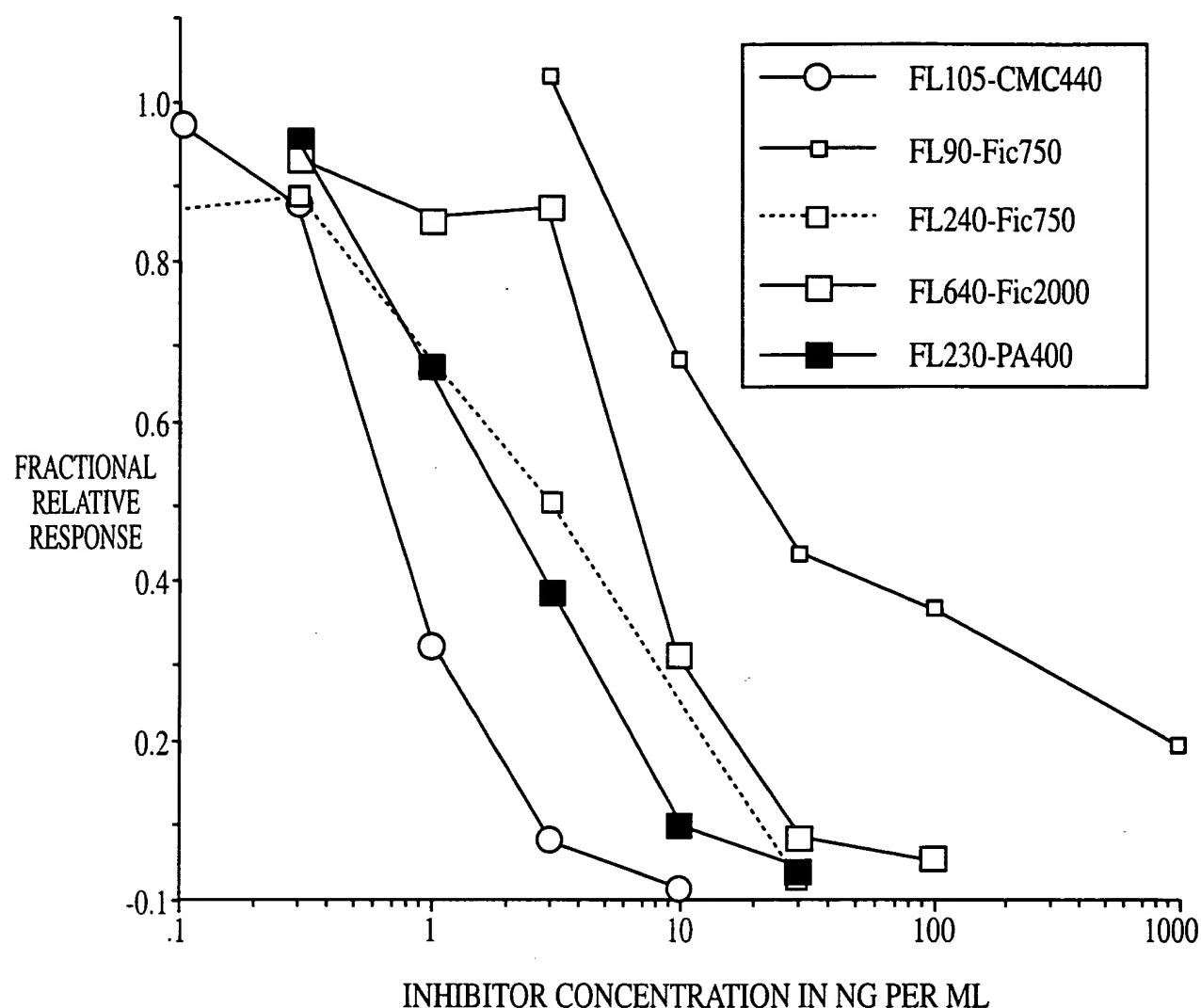


FIG. 26

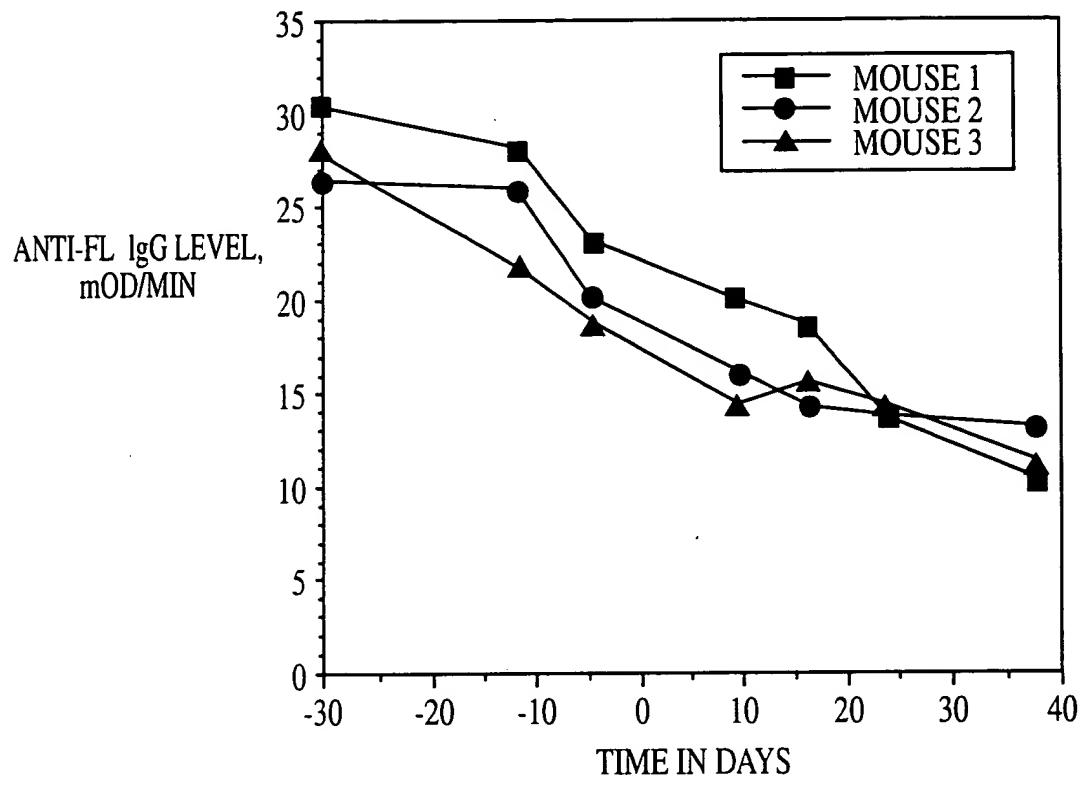


FIG. 27

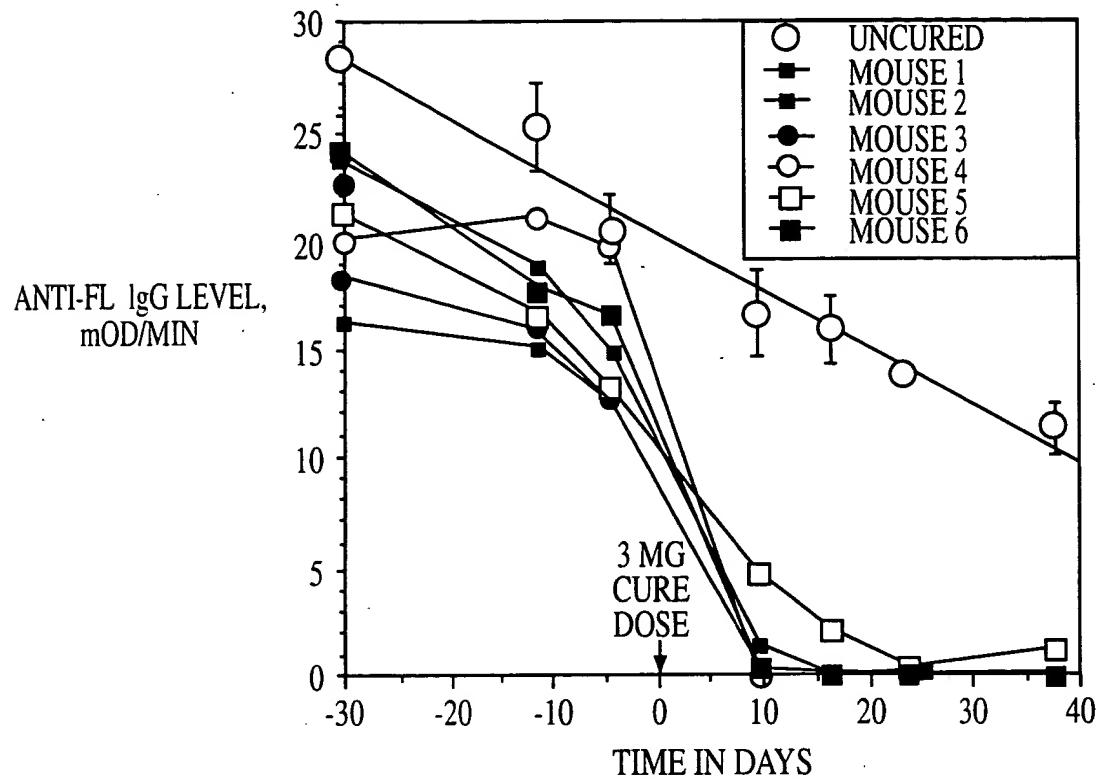


FIG. 28

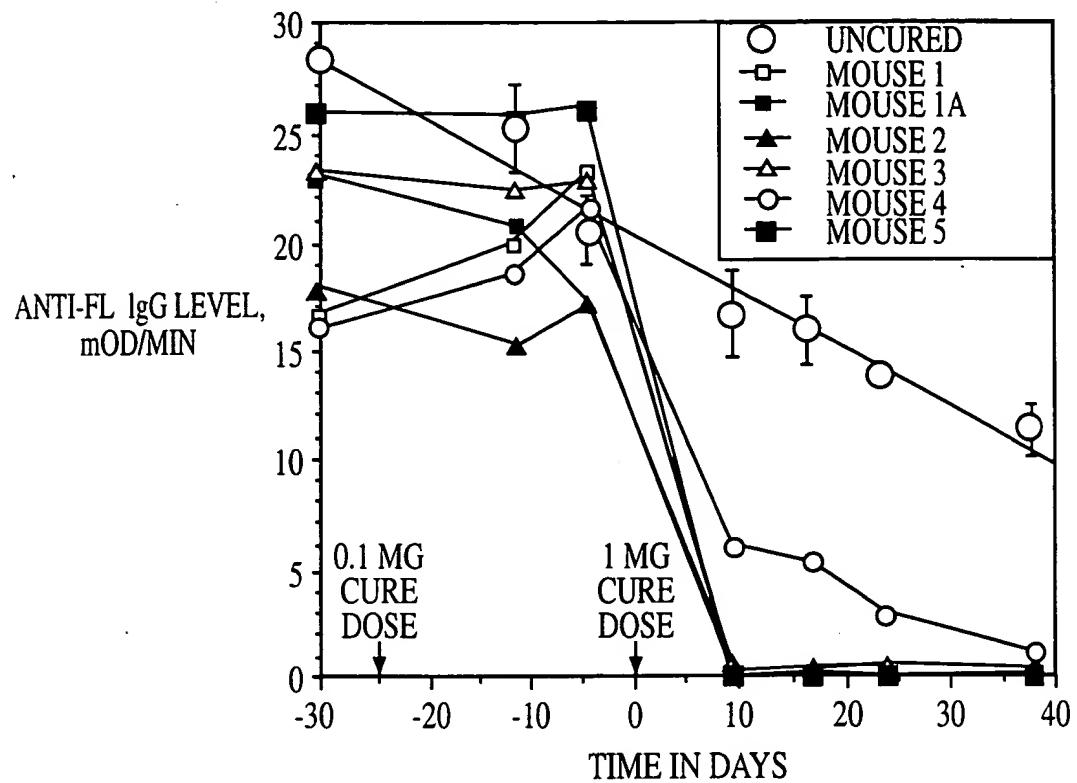


FIG. 29

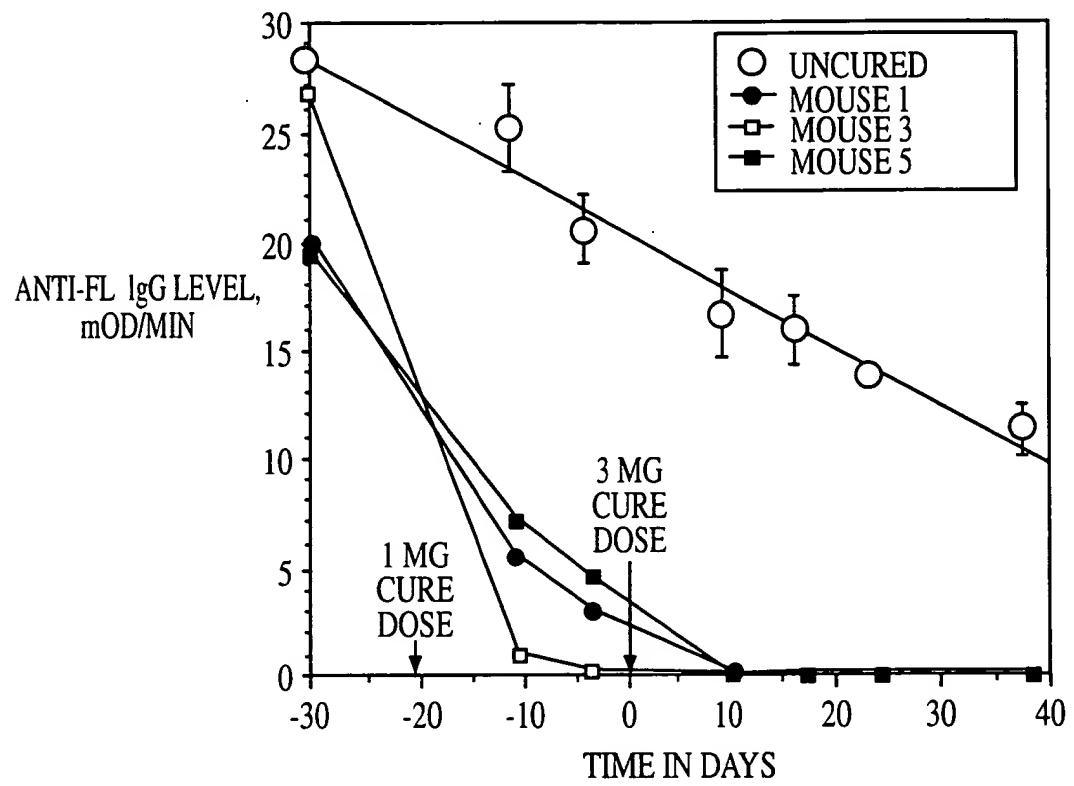


FIG. 30

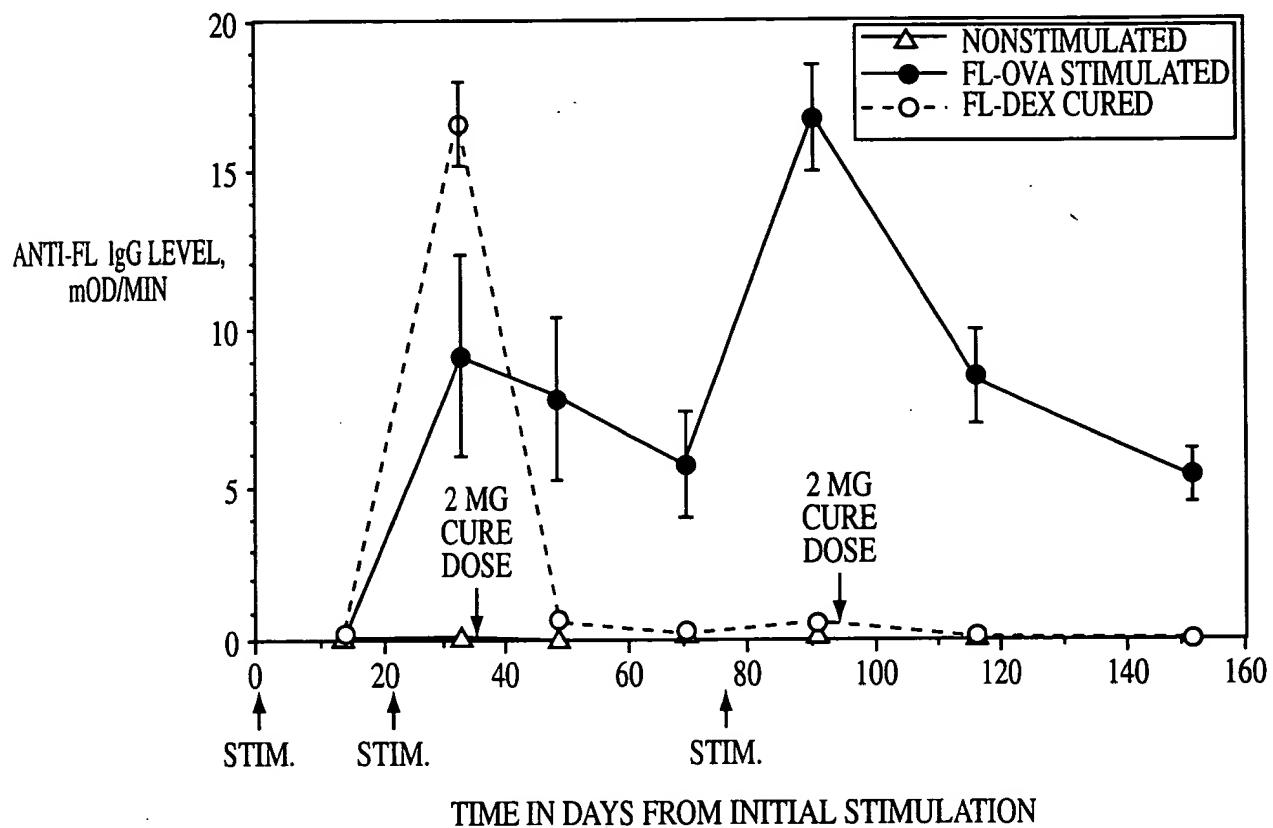


FIG. 31

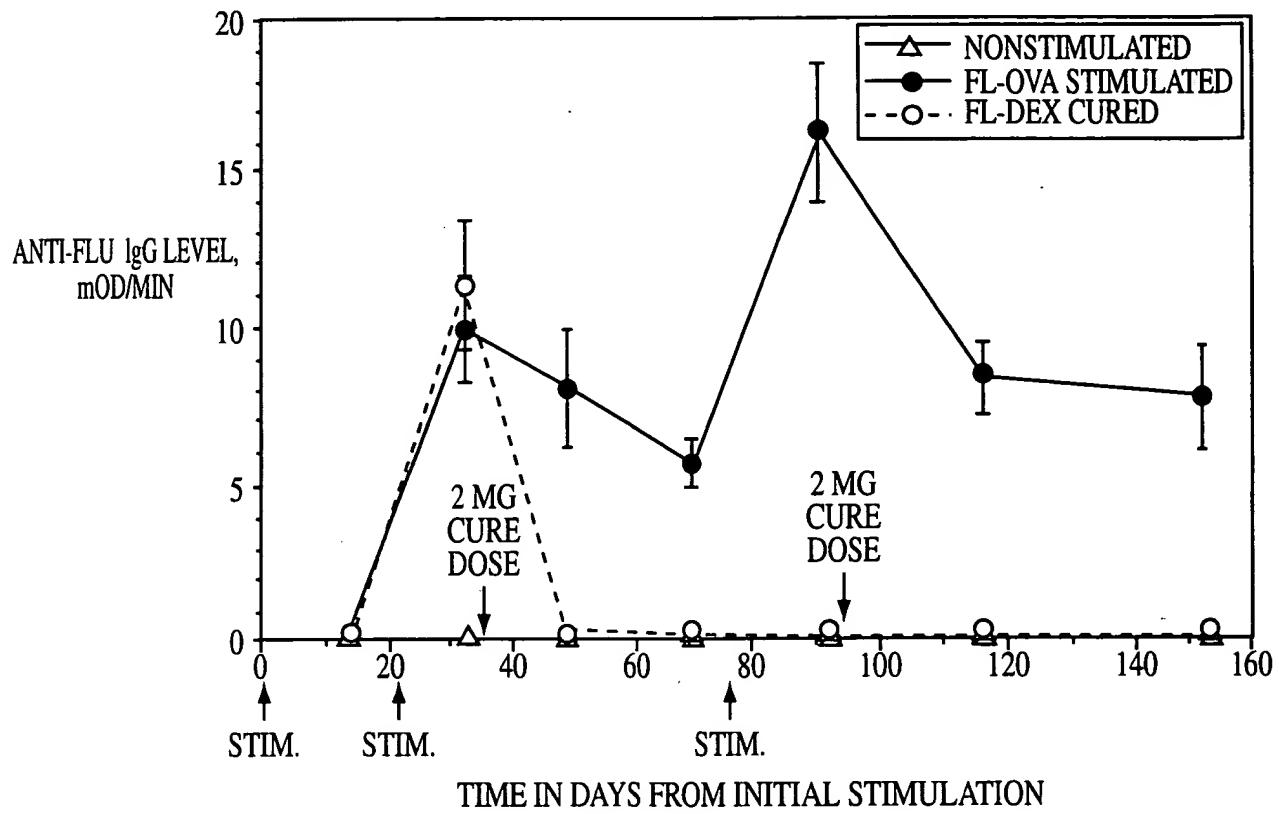


FIG. 32

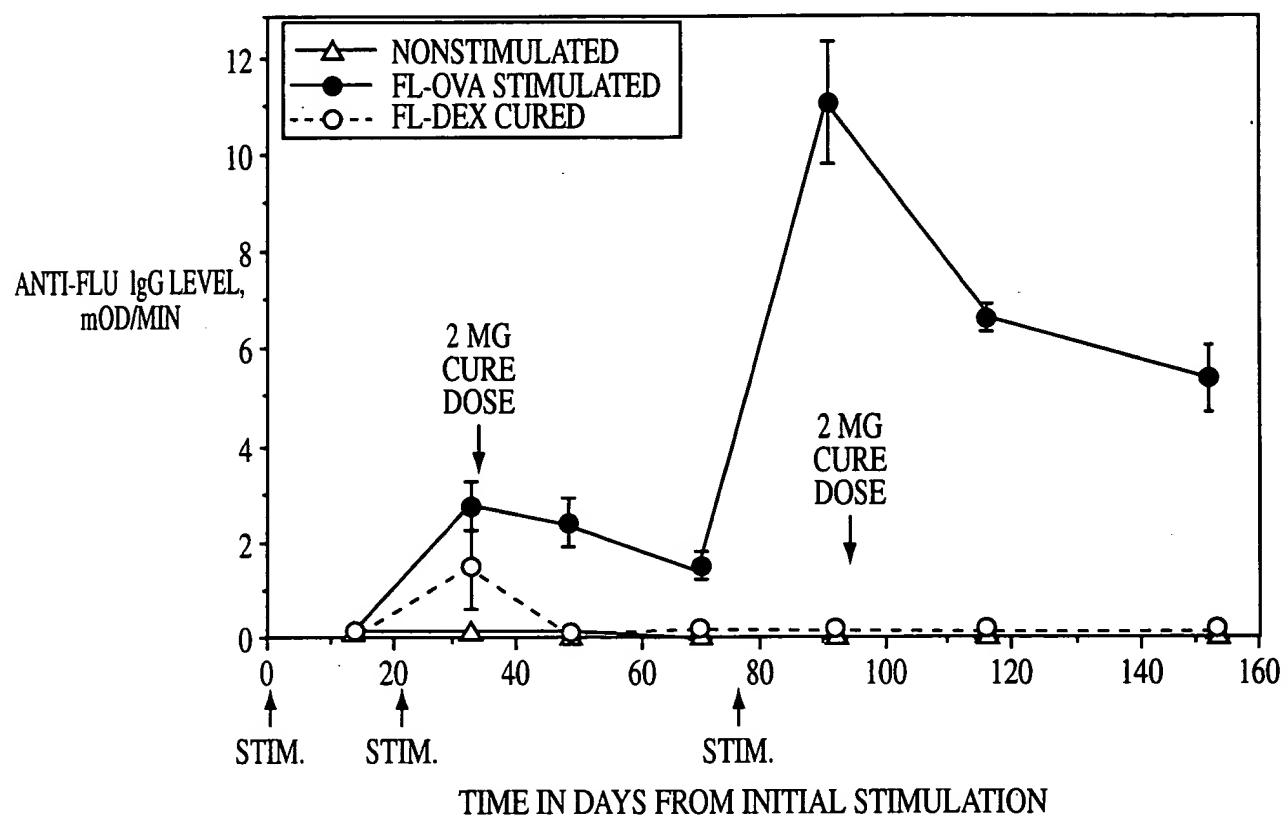


FIG. 33

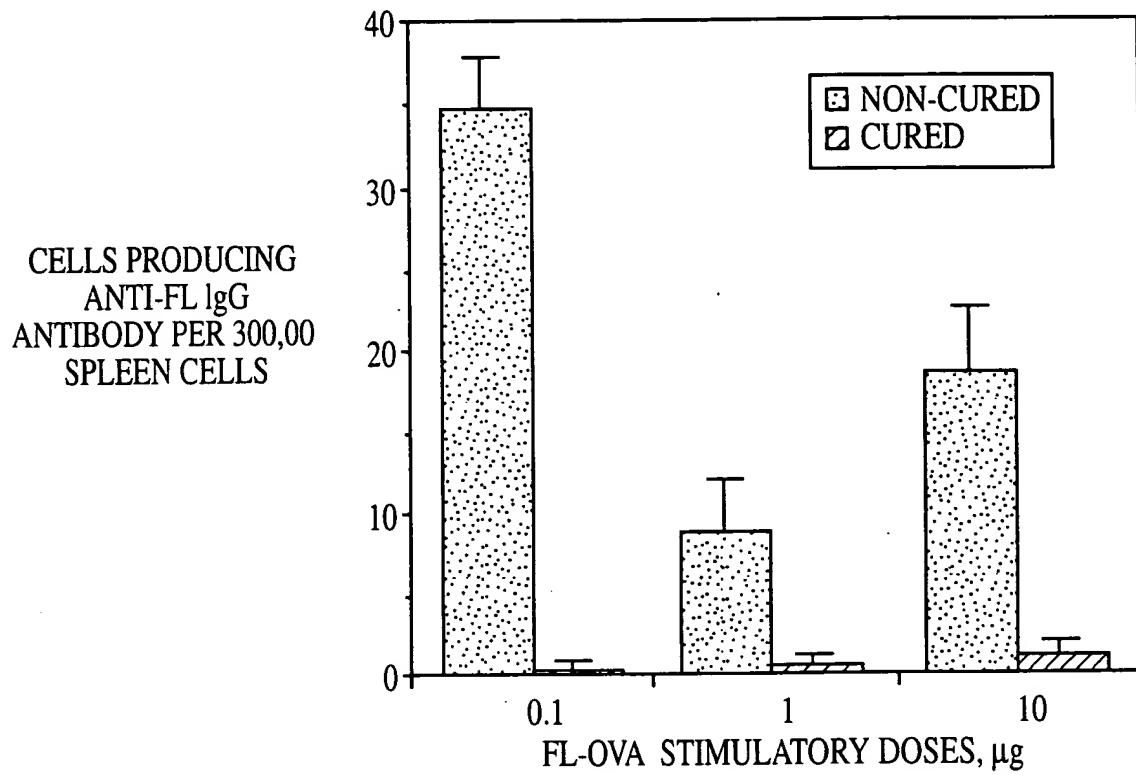


FIG. 34

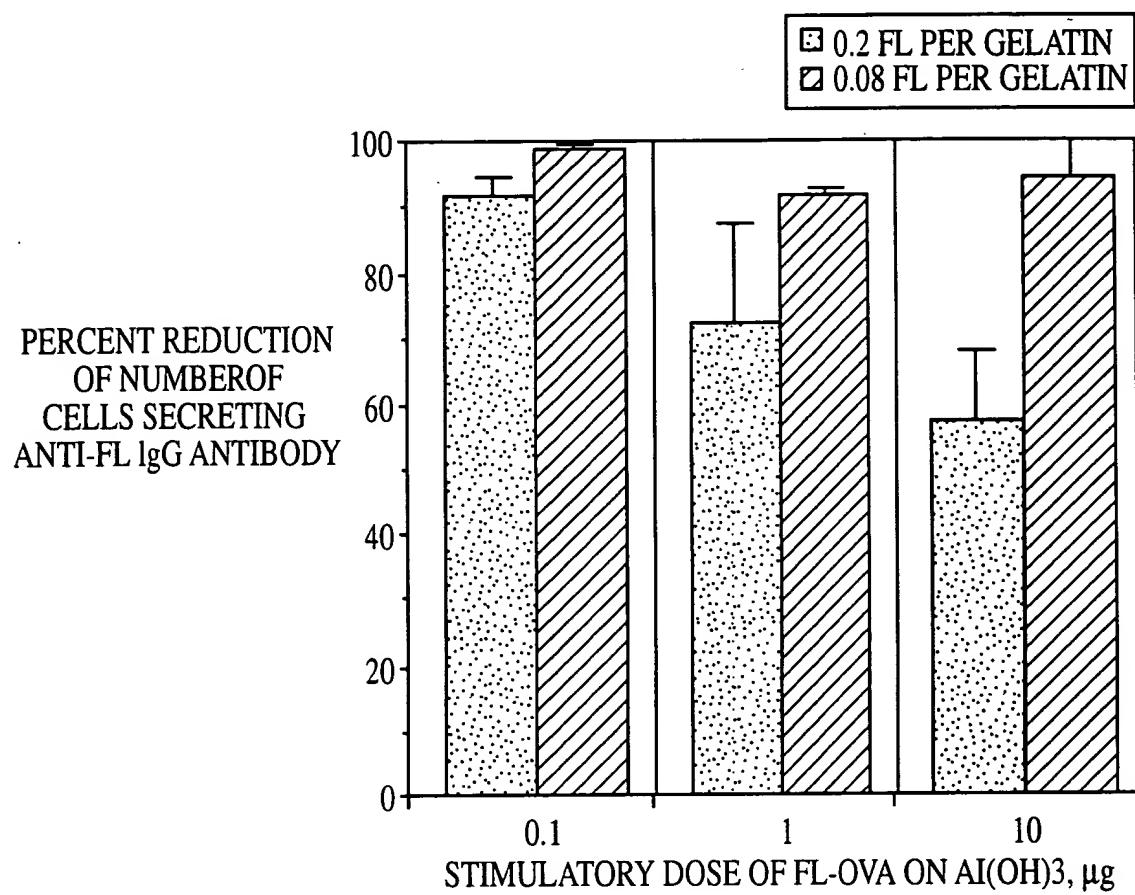


FIG. 35

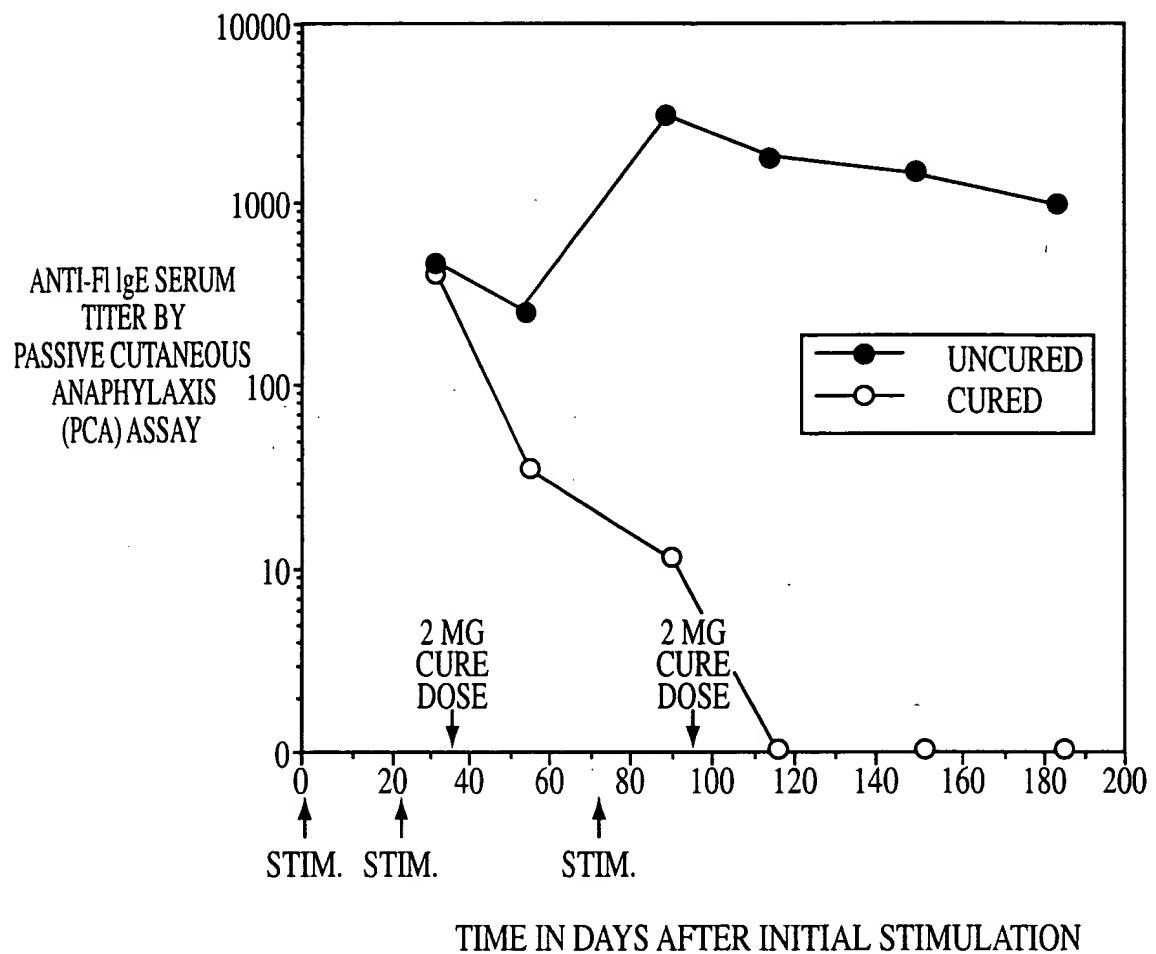
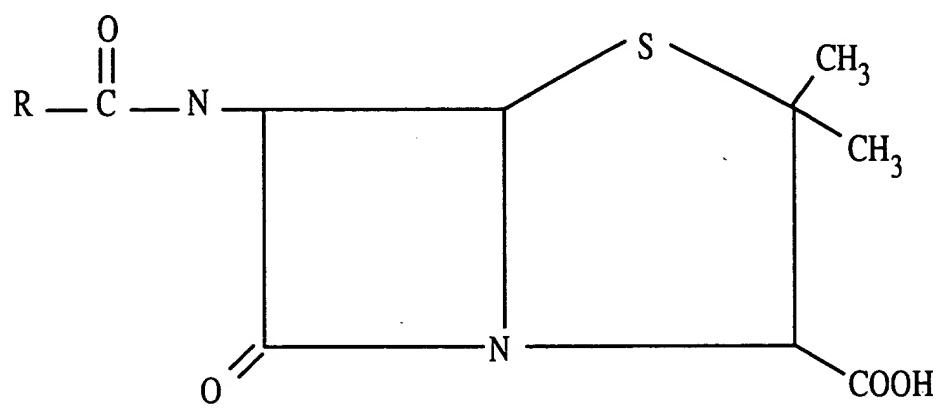
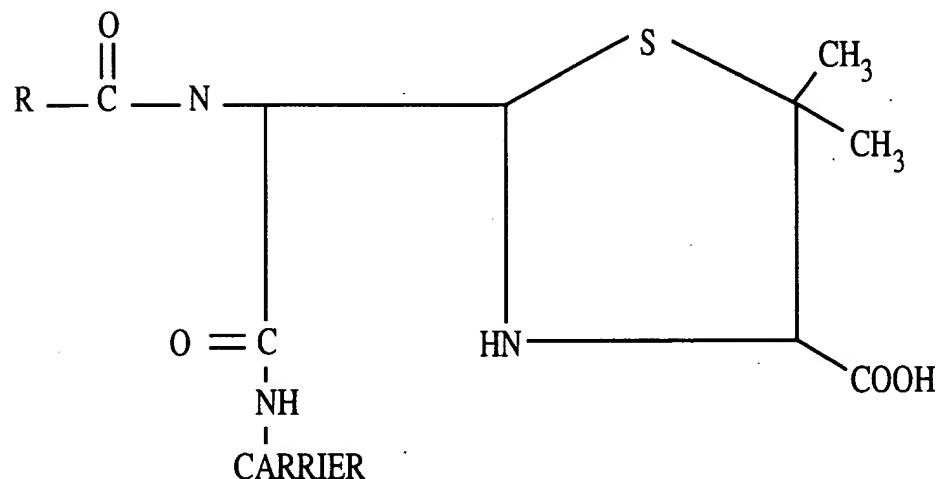


FIG. 36



PENICILLIN



PENICILLOYL

FIG. 37

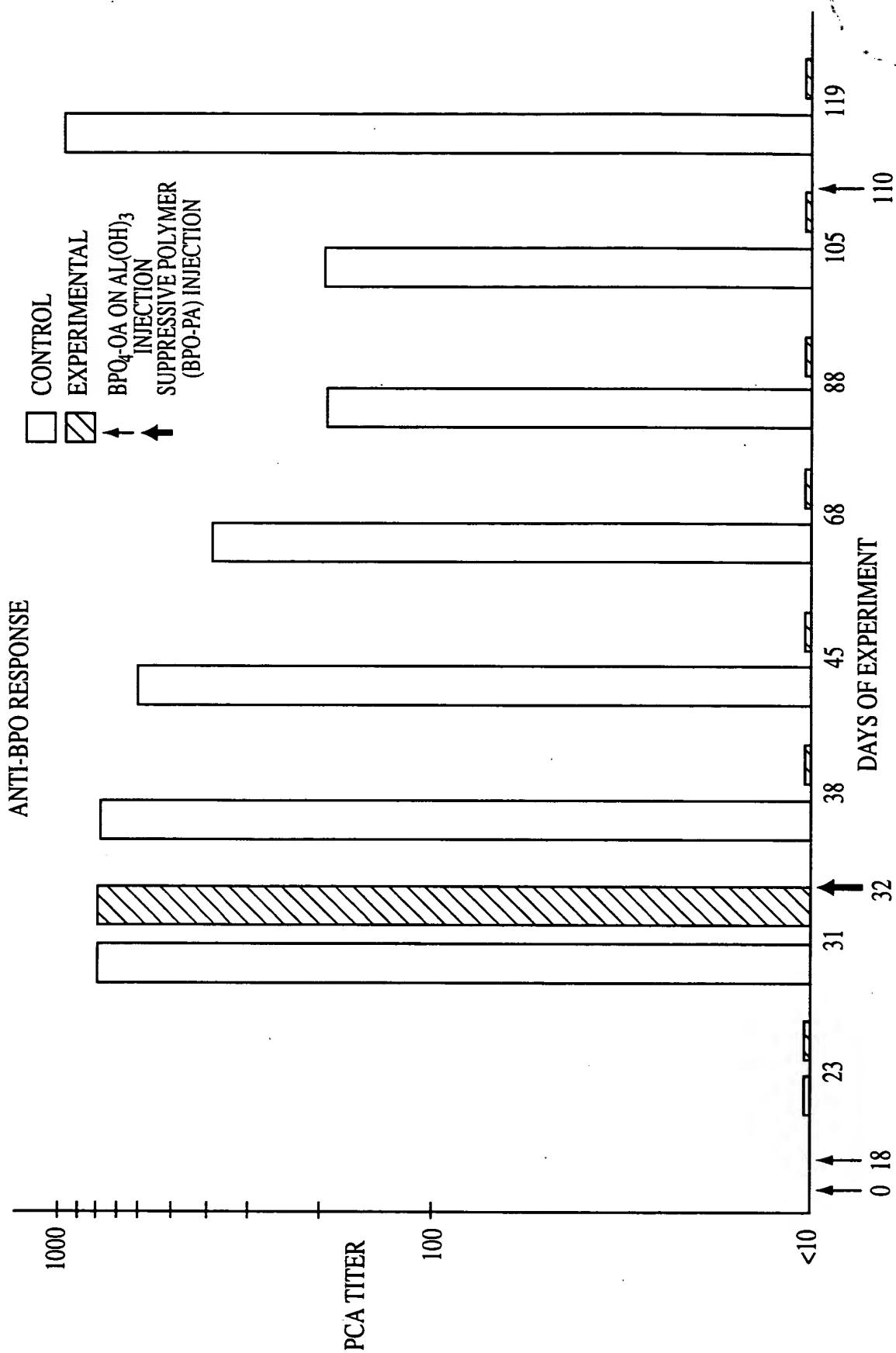


FIG. 38a

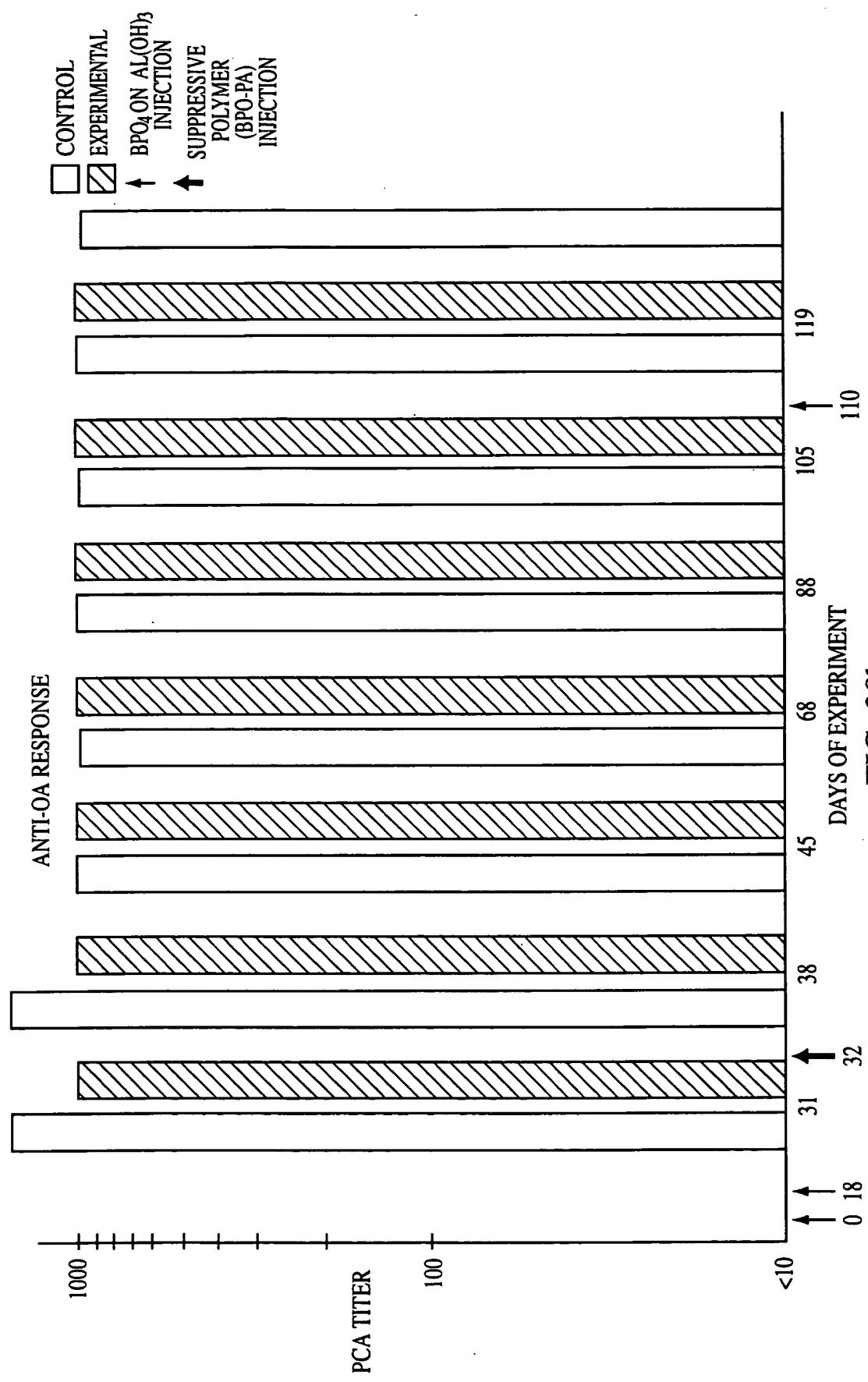


FIG. 38b

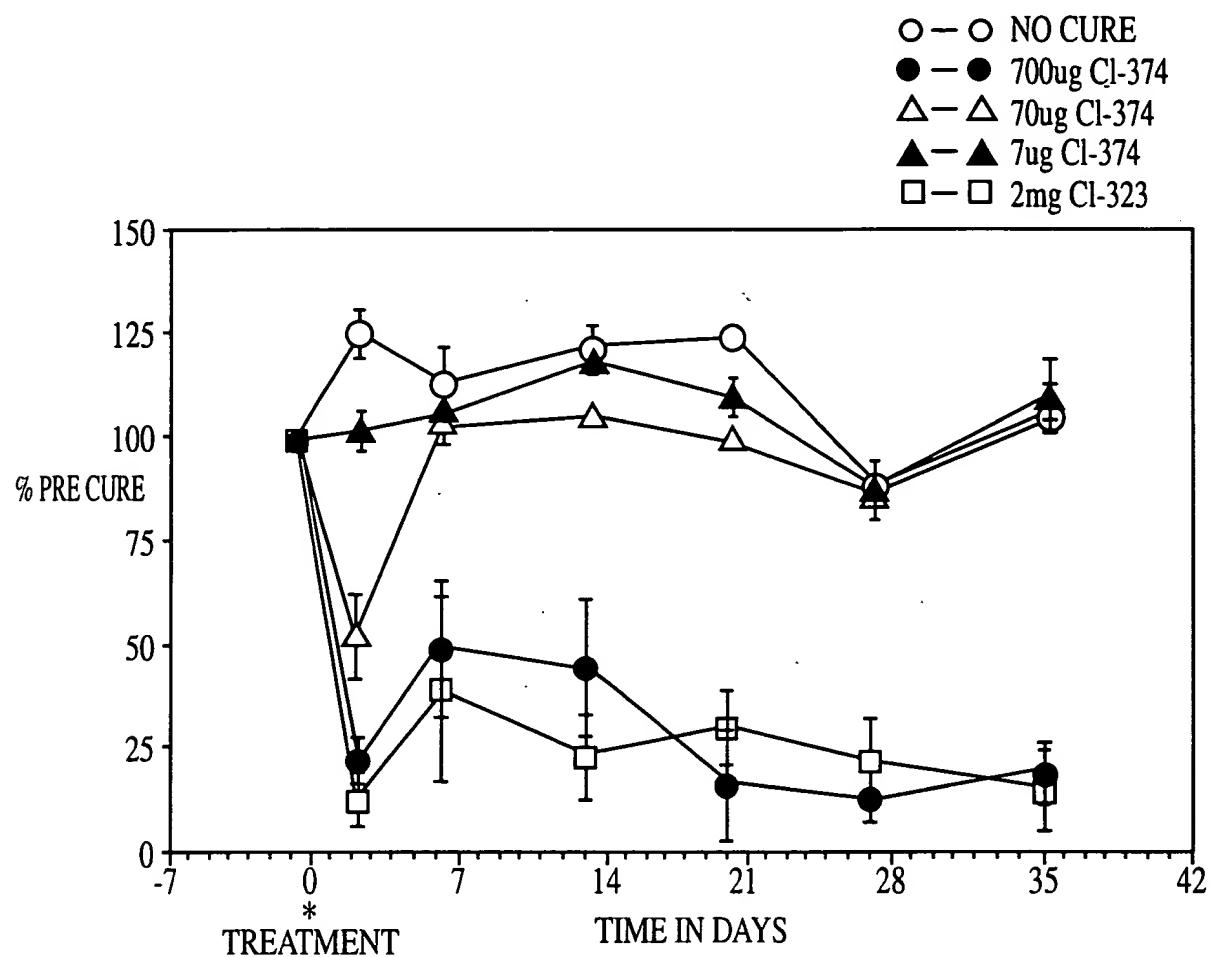


FIG. 39

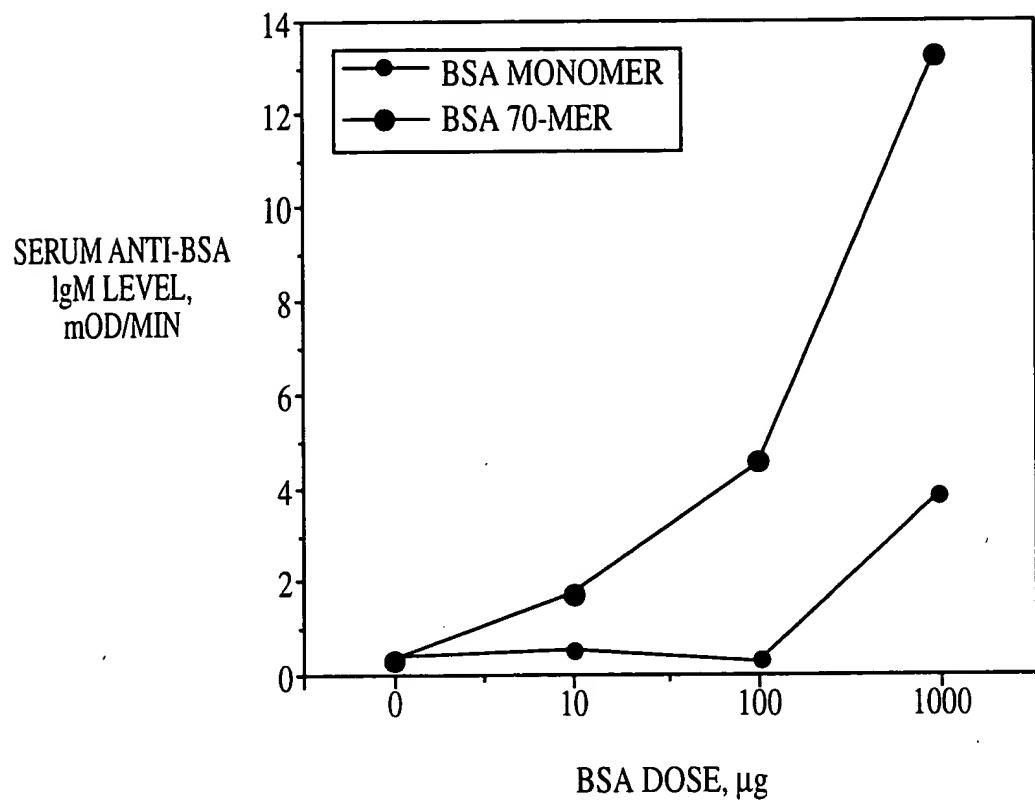


FIG. 40

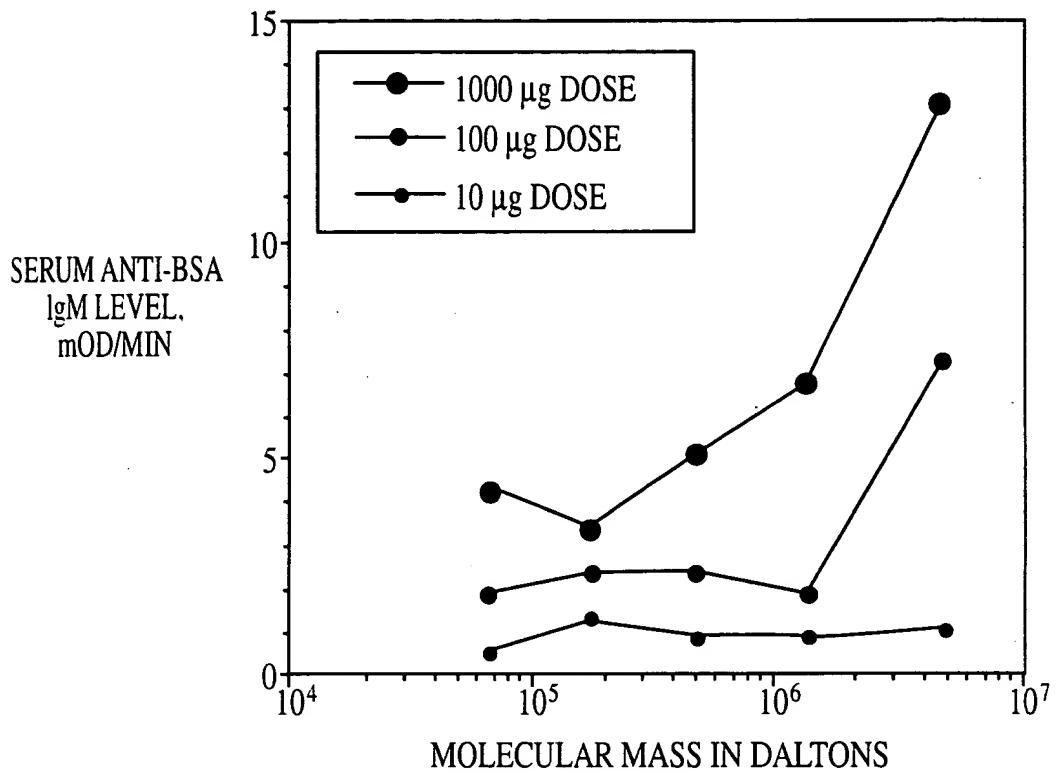


FIG. 41

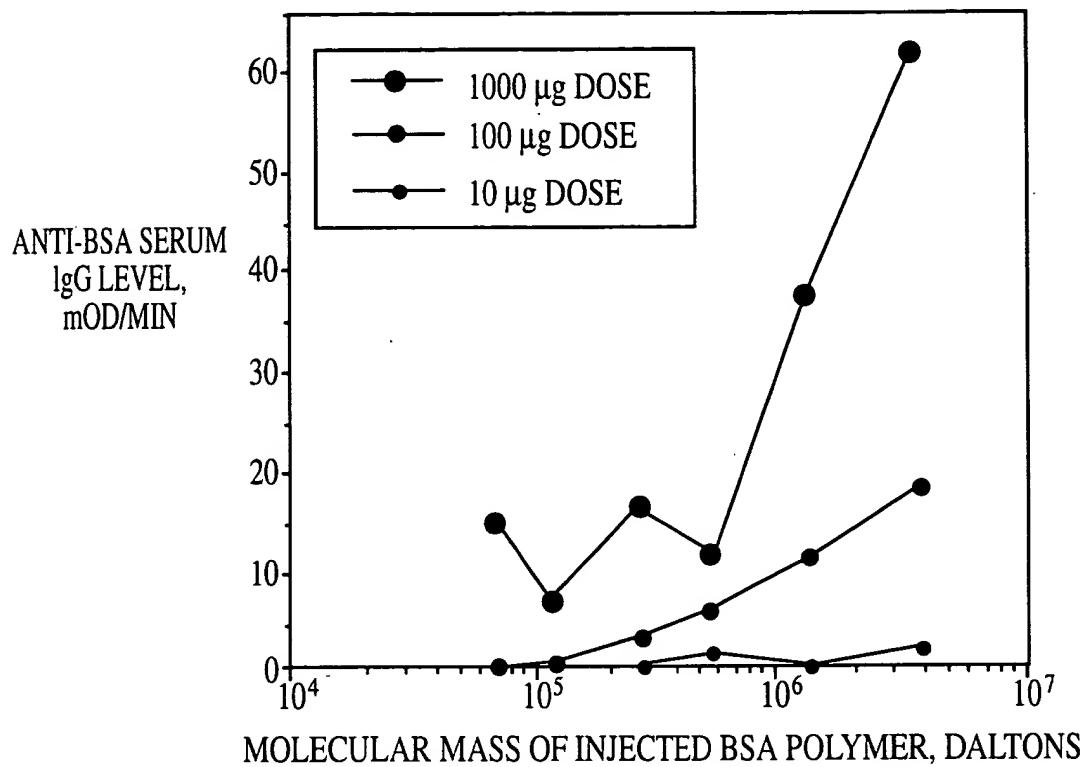


FIG. 42

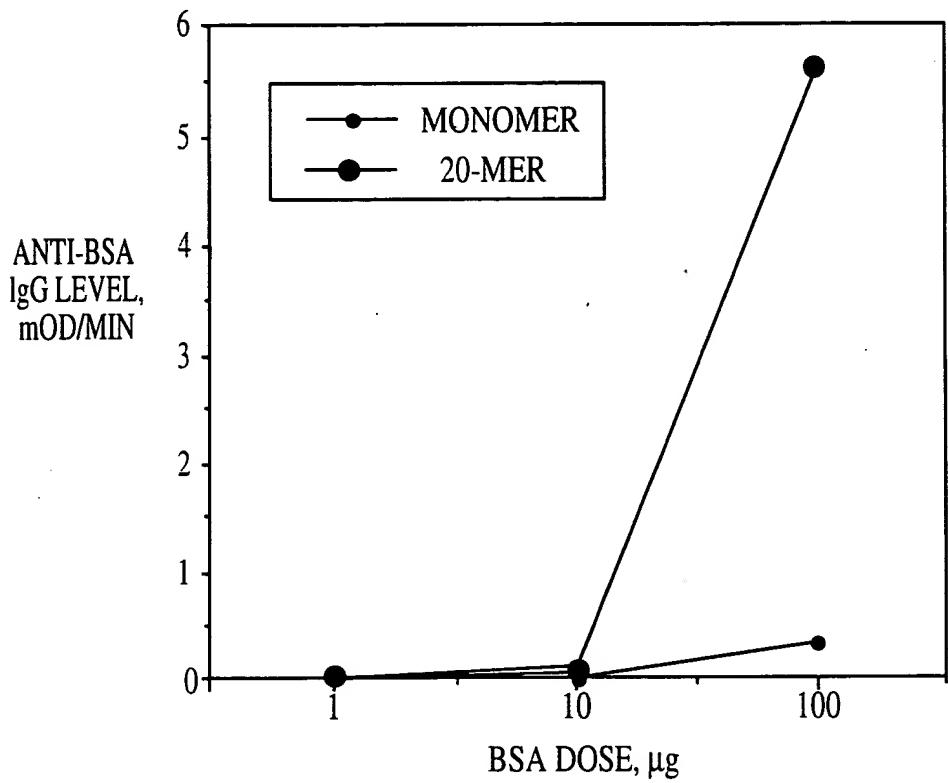


FIG. 43

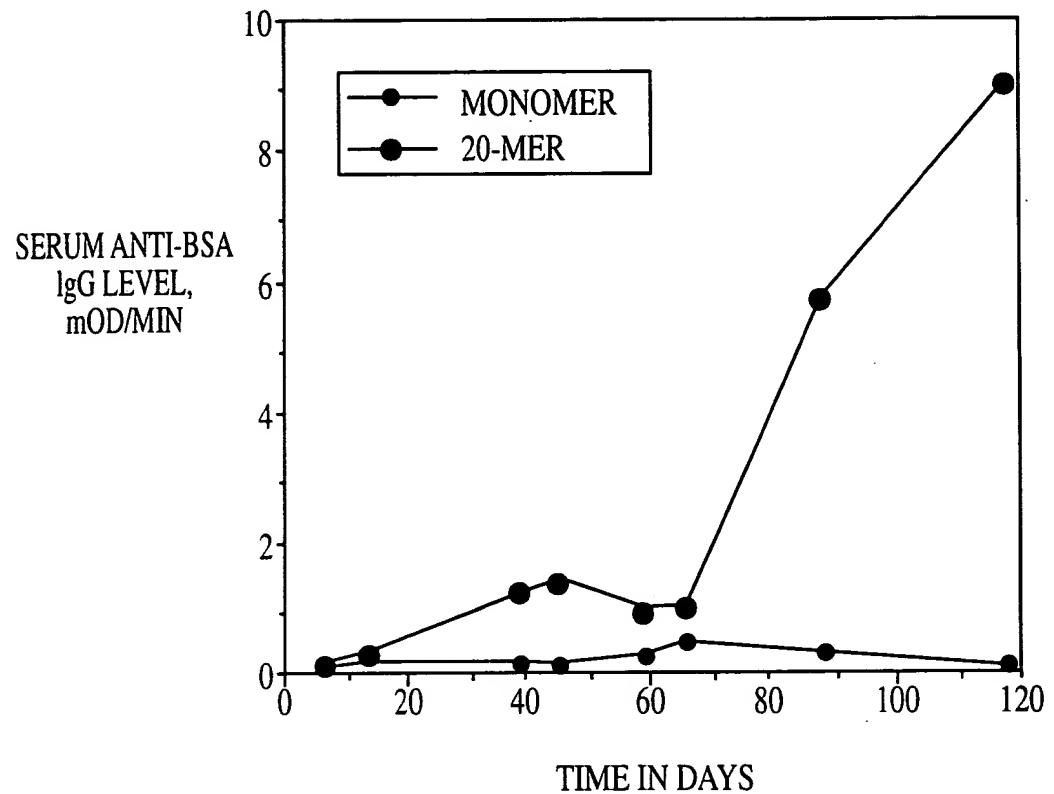


FIG. 44

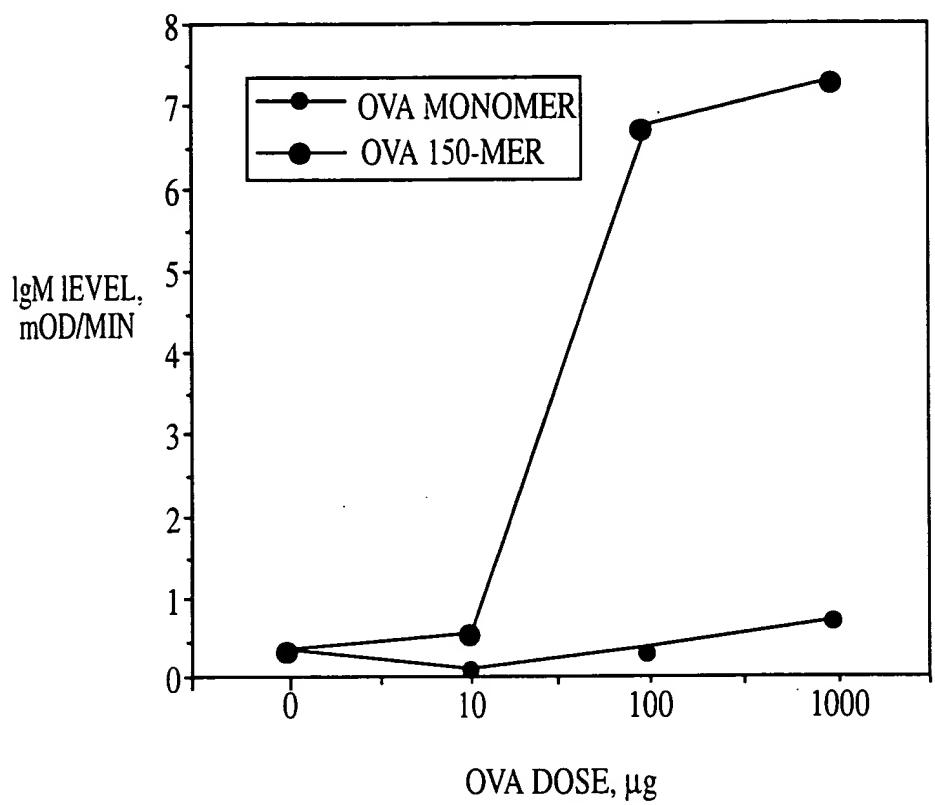


FIG. 45

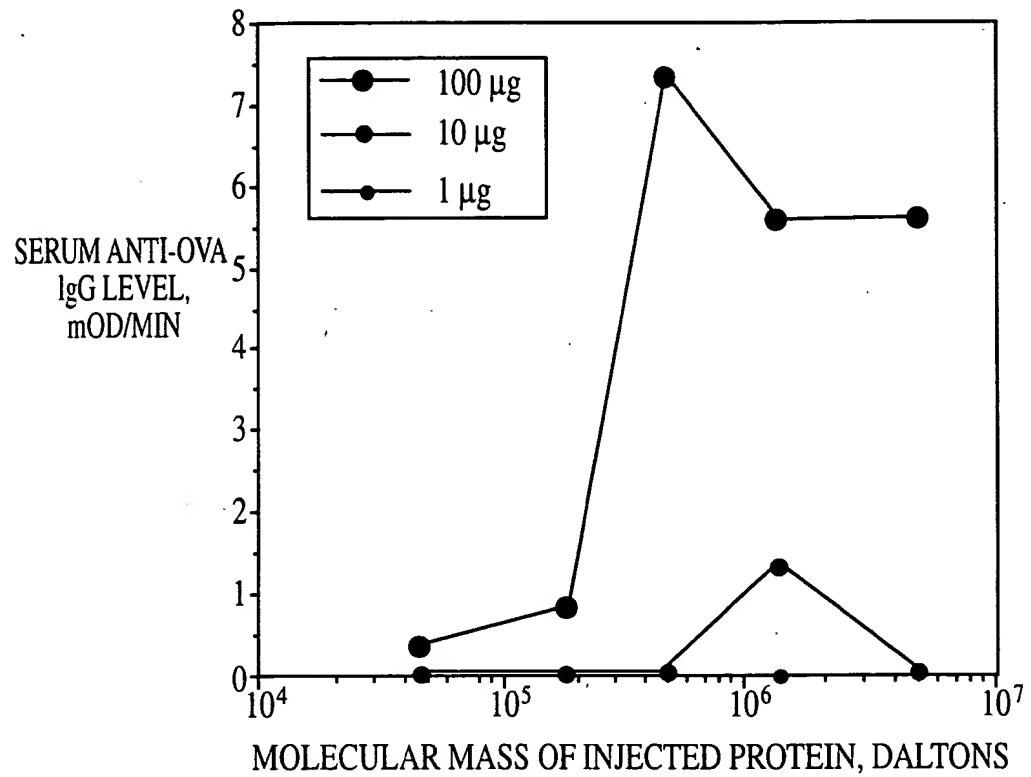


FIG. 46

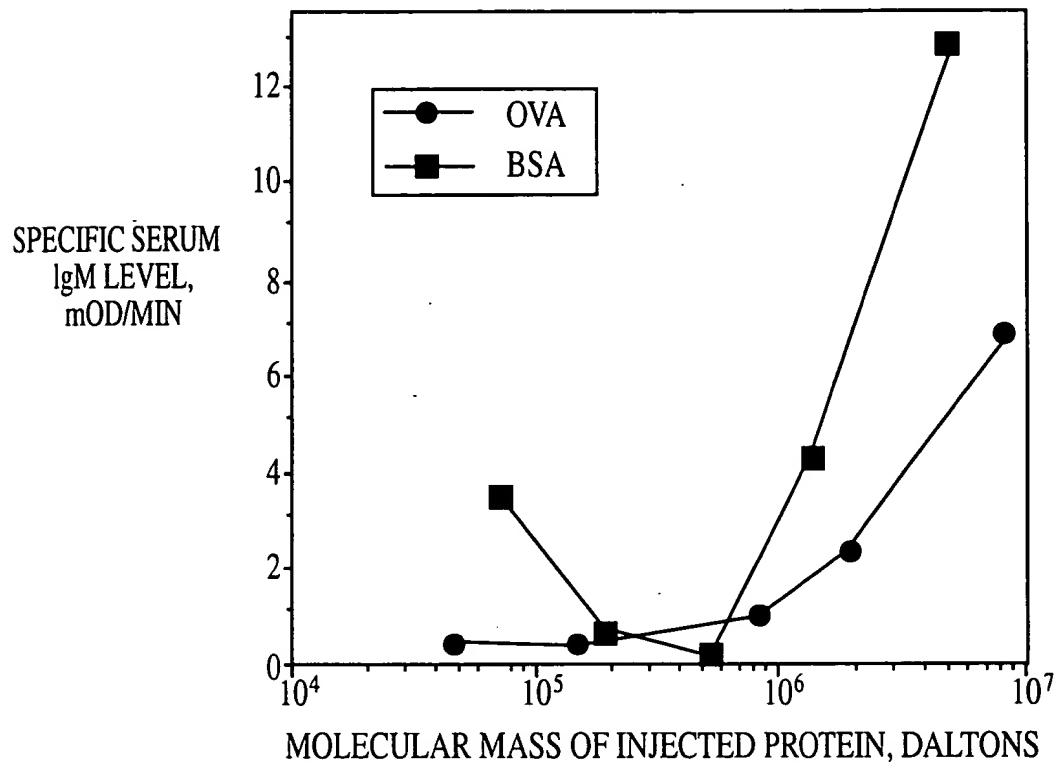


FIG. 47

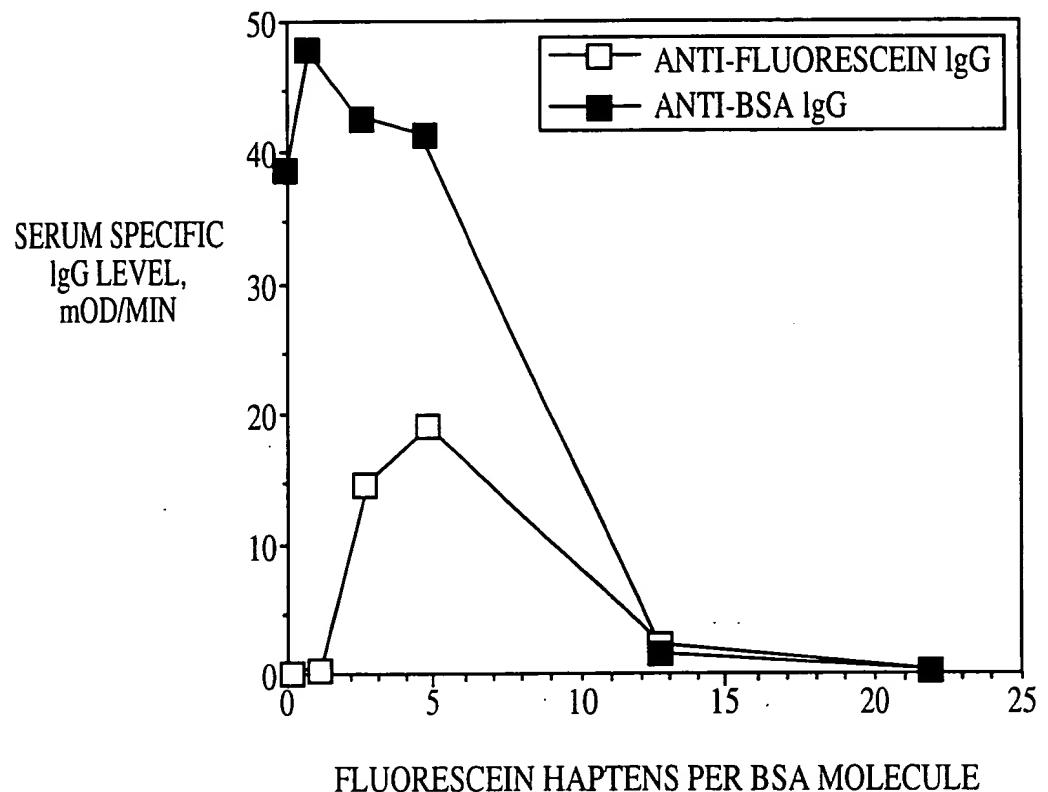


FIG. 48

20 40 60 80 100 120 140 160 180 200

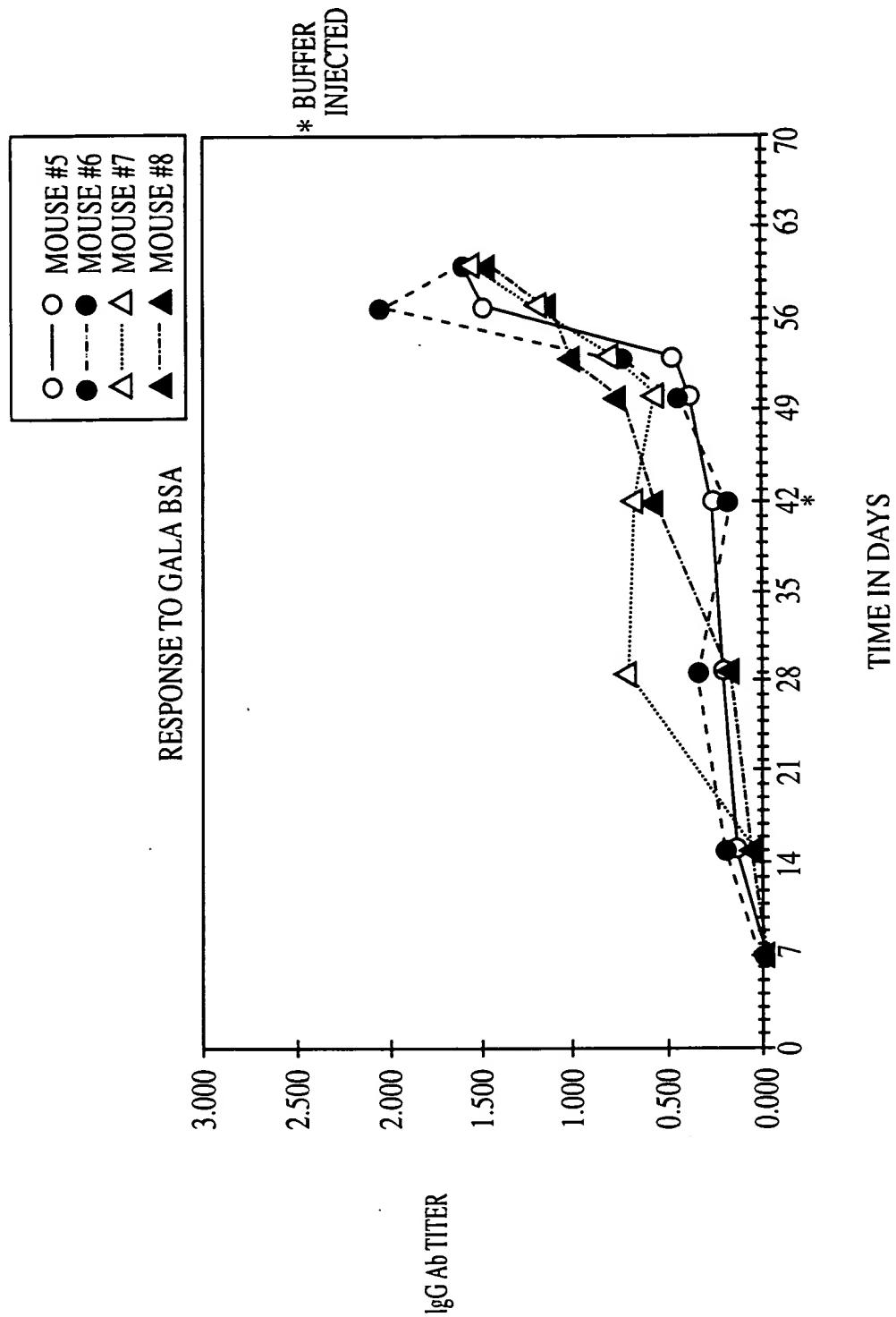


FIG. 49

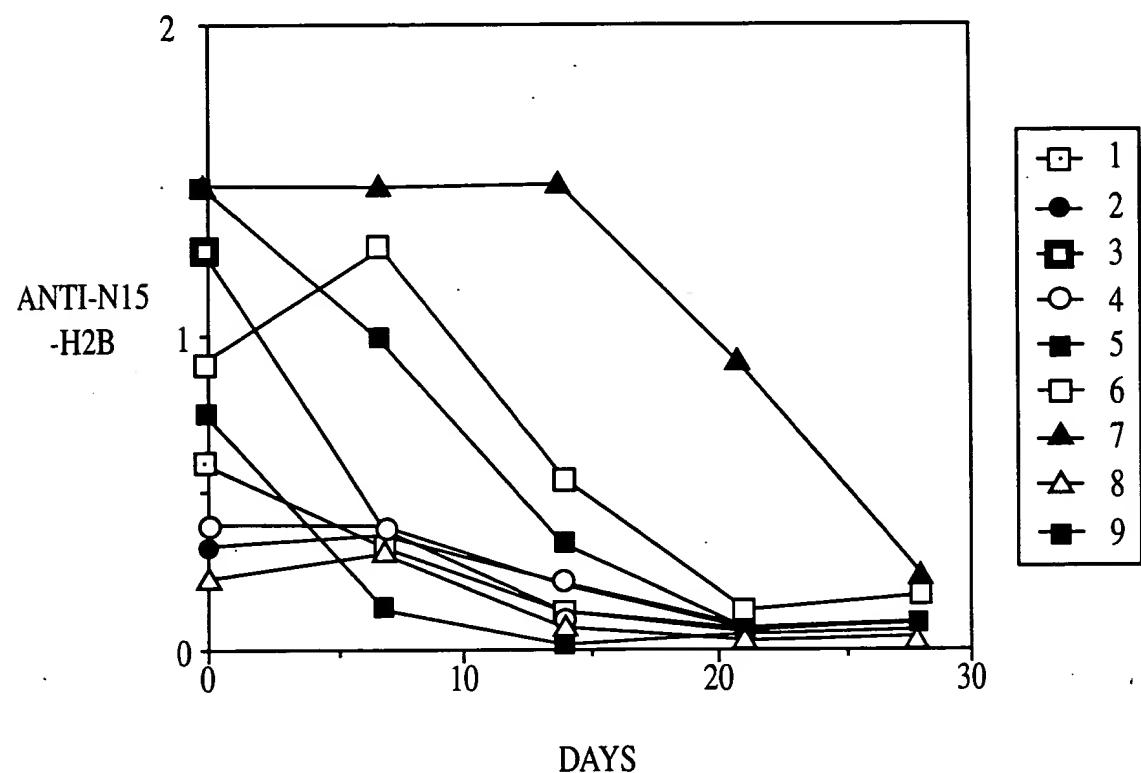


FIG. 52a

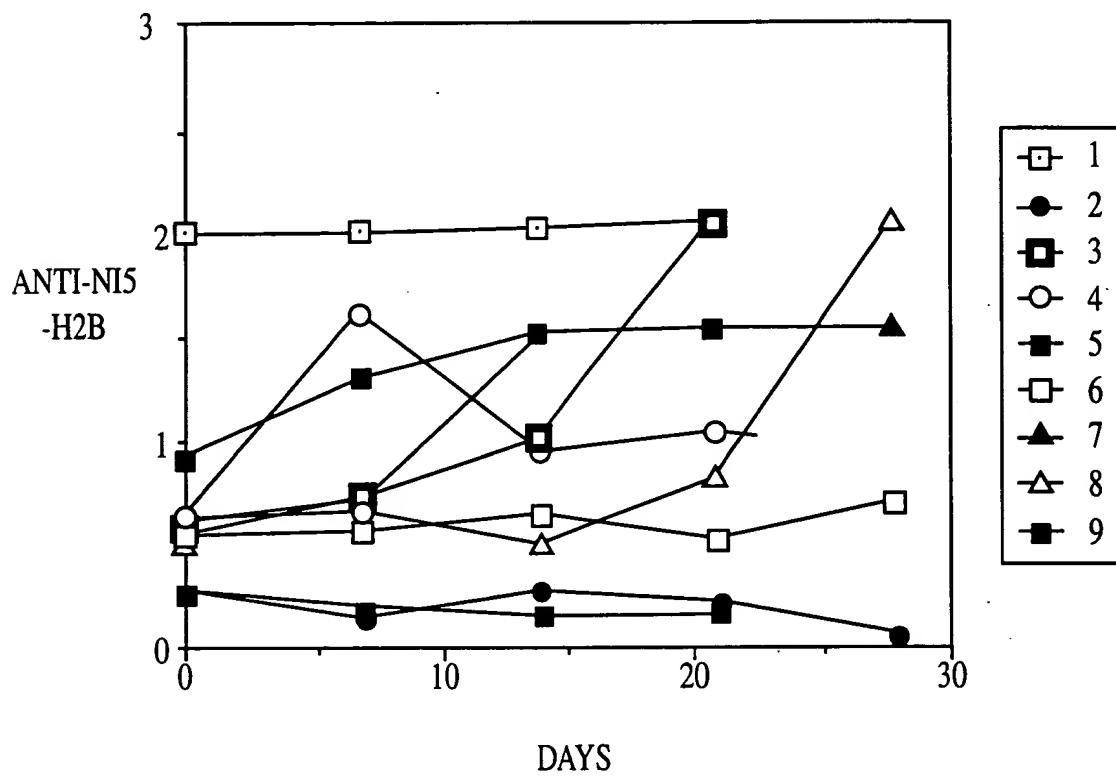


FIG. 52b

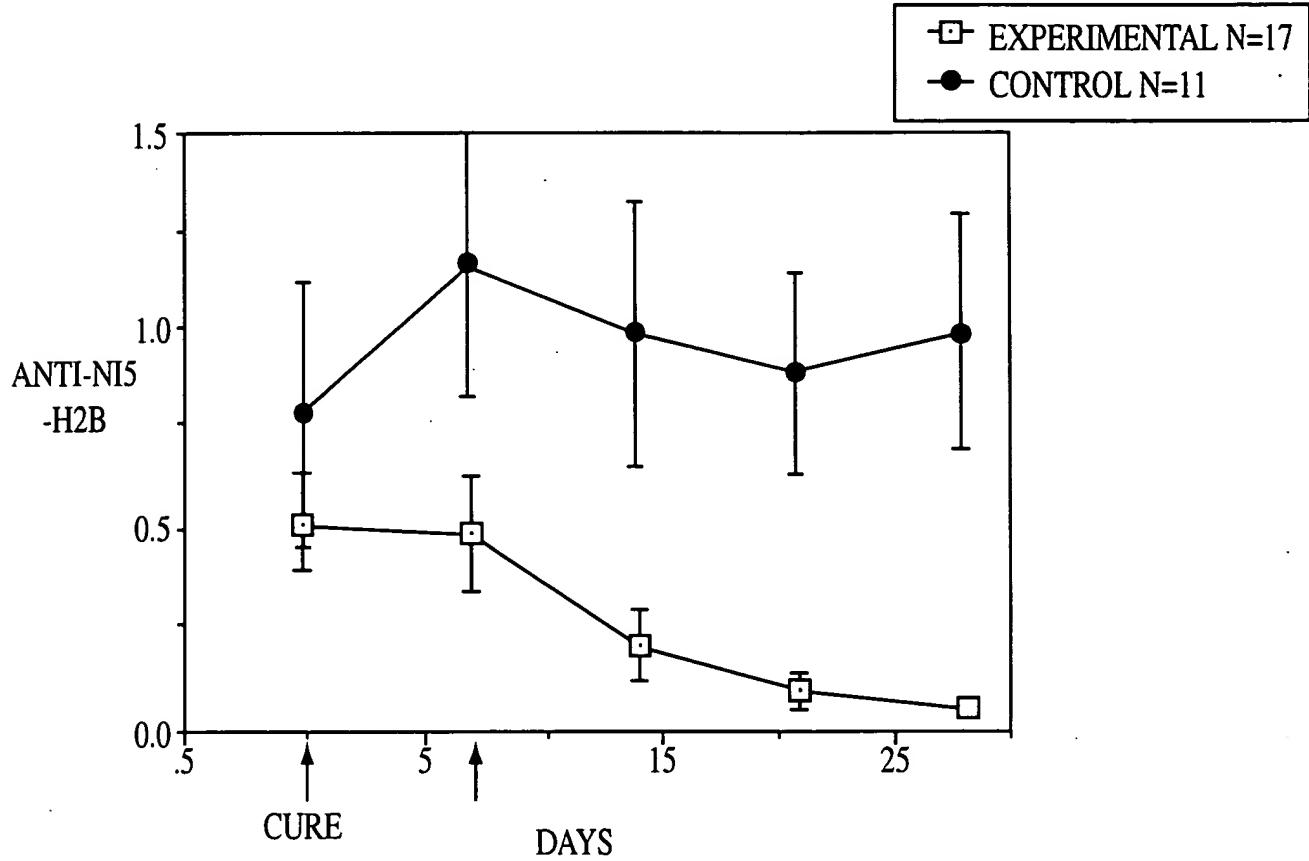


FIG. 53a

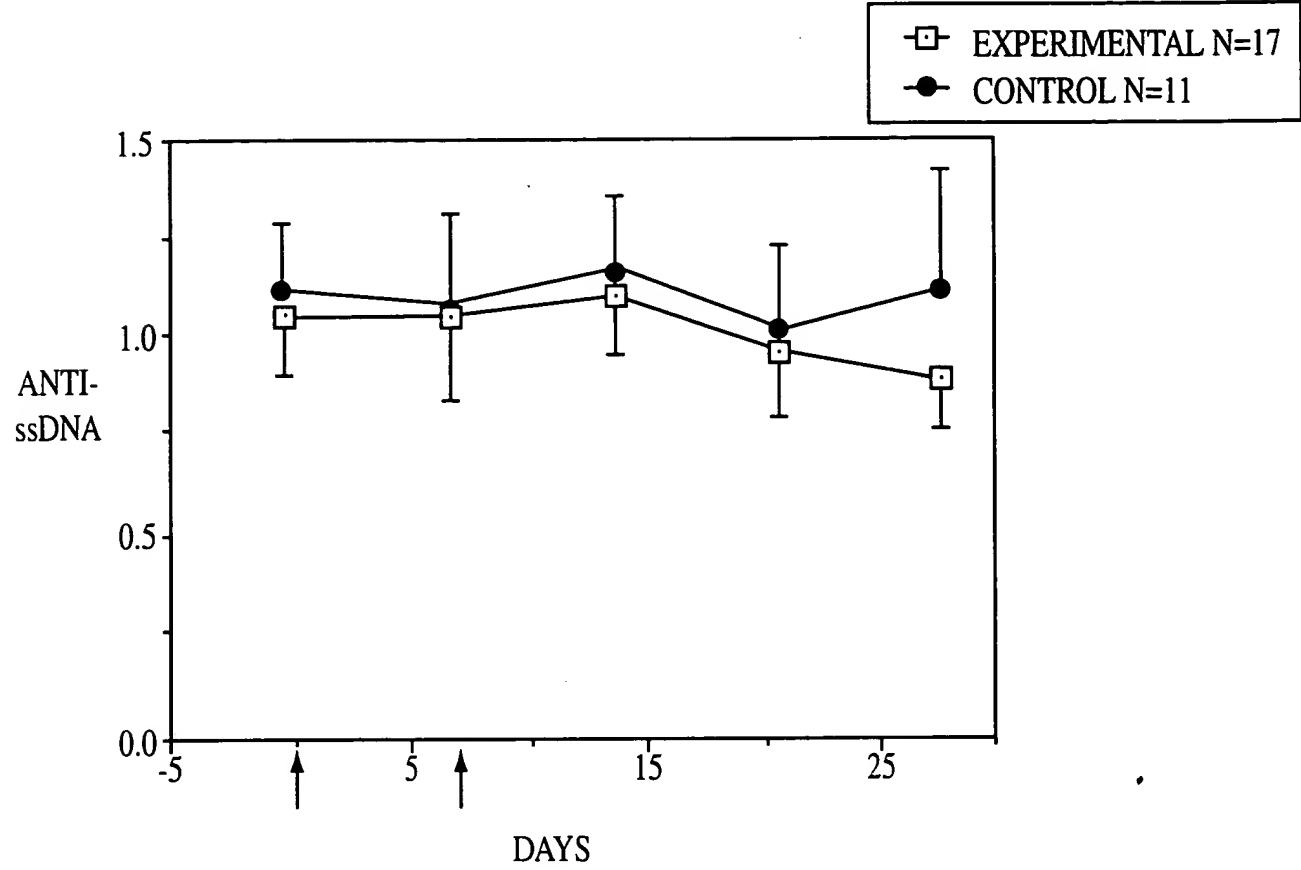


FIG. 53b

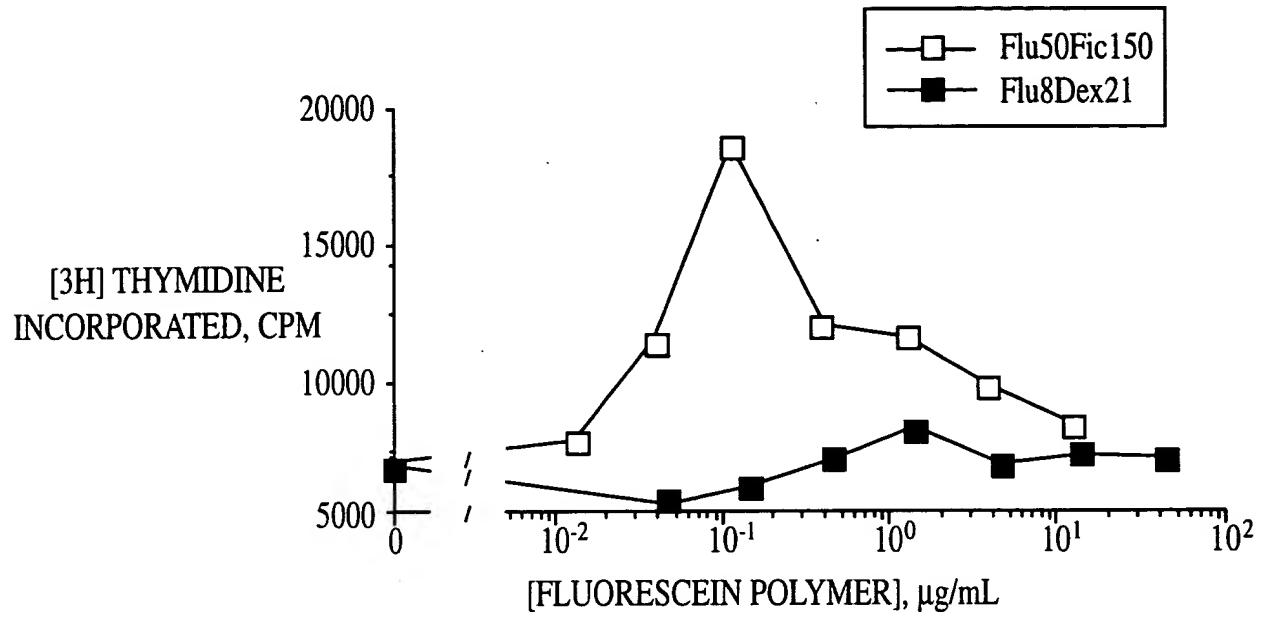


FIG. 54a

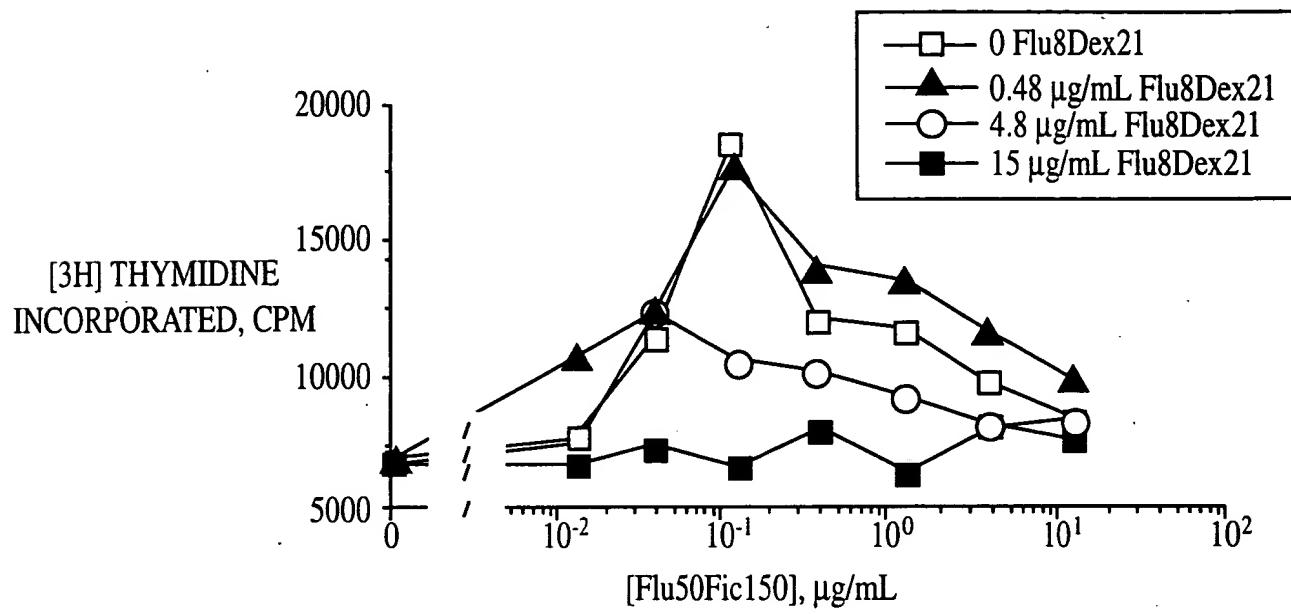


FIG. 54b

FIG. 55

